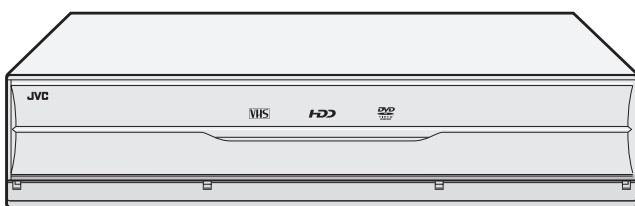


# JVC

## SERVICE MANUAL

DVD / HDD VIDEO RECORDER & VIDEO CASSETTE RECORDER

### DR-MX1SEF, DR-MX1SEK, DR-MX1SEU, DR-MX1SEY, DR-MX1SEZ



DR-MX1SEF, DR-MX1SEK, DR-MX1SEU, DR-MX1SEY, DR-MX1SEZ [D4VC21]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).



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# SPECIFICATION

|                                      | DR-MX1SEK   | DR-MX1SEU / EY / EZ  | DR-MX1SEF  |
|--------------------------------------|---|--|--|
| GENERAL                              |   |  |  |
| Power requirement                    | AC 220 V - 240 V, 50 Hz / 60 Hz   |  |  |
| Power consumption                    |   |  |  |
| Power on                             | 47 W  |  |  |
| Power off                            | 16.6 W  |  |  |
| Temperature                          |   |  |  |
| Operating                            | 5°C to 35°C°  |  |  |
| Storage                              | -20°C to 60°C   |  |  |
| Operating position                   | Horizontal only   |  |  |
| Dimensions (W × H × D)               | 435 mm × 96 mm × 383 mm   |  |  |
| Weight                               | 7.2 kg  |  |  |
| Input/Output                         |   |  |  |
| Video input                          | 0.5 - 2.0 Vp-p, 75 Ω (pin jack)   |  |  |
| Audio input                          | -8 dB, 50 kΩ (pin jack), Corresponding to mono (left)   |  |  |
| Audio output                         | -8 dB, 1 kΩ (pin jack)  |  |  |
| 21-pin SCART connectors              | IN / OUT × 1, IN / DECODER × 1  |  |  |
| Input / Output (HDD & DVD Deck Only) |   |  |  |
| S-video input                        | Y: 0.8 - 1.2 Vp-p, 75 Ω, C: 0.2 - 0.4 Vp-p, 75 Ω  |  |  |
| i.Link                               | 4-pin for DV input  |  |  |
| Component video output               | Y: 1.0 Vp-p, 75 Ω, CB/CR, PB/PR: 0.7 Vp-p, 75 Ω, Corresponding to copy protection   |  |  |
| SAT Control                          | Ø3.5mm  |  |  |
| Digital audio output                 | Optical: -18 dBm, 660 nm, Coaxial: 0.7 Vp-p, 75 Ω, Corresponding to Dolby Digital and DTS Digital Surround Bit stream Selectable in digital audio output setting menu |  |  |
| VIDEO/AUDIO (DVD Deck)               |   |  |  |
| Recording time                       | Maximum 8 hours (with 4.7 GB disc), (XP): Approx. 1 hour, (SP): Approx. 2 hours, (LP): Approx. 4 hours (EP): Approx. 6 hours, (FR): Approx. 1 hour - 8 hours          |  |  |
| Audio recording system               | Dolby Digital (2 ch), Linear PCM (XP mode only)   |  |  |
| Video recording compression system   | MPEG2 (CBR/VBR)   |  |  |
| VIDEO/AUDIO (HDD Deck)               |   |  |  |
| Video recording compression system   | MPEG2 (VBR)   |  |  |
| Audio recording system               | Dolby Digital (2 ch), Linear PCM (XP mode only)   |  |  |
| Recording time                       | Maximum 300 hours (with 160 GB HDD), (XP): Approx. 34 hours, (SP): Approx. 69 hours, (LP): Approx. 138 hours (EP): Approx. 209 hours, (FR): Approx. 36 - 300 hours    |  |  |
| VIDEO/AUDIO (VHS Deck)               |   |  |  |
| Signal system                        | PAL colour signal and CCIR monochrome signal, 625 lines / 50 fields   |  | PAL/SECAM colour signal and CCIR monochrome signal, 625 lines/50 fields  |
| Recording system                     | DA4 (Double Azimuth) head helical scan system   |  |  |
| Format                               | VHS PAL standard  |  | VHS PAL/SECAM standard   |
| Tape width                           | 12.65 mm  |  |  |
| Tape speed                           |   |  |  |
| (SP)                                 | 23.39 mm/s  |  |  |
| (LP)                                 | 11.70 mm/s  |  |  |
| Maximum recording time               |   |  |  |
| (SP)                                 | 240 min. with E-240 video cassette  |  |  |
| (LP)                                 | 480 min. with E-240 video cassette  |  |  |
| Signal-to-noise ratio                | 45 dB   |  |  |
| Horizontal resolution                | 230 lines   |  |  |
| Frequency range                      | 70 Hz to 10,000 Hz (Normal audio) 20 Hz to 20,000 Hz (Hi-Fi audio)  |  |  |
| TUNER/TIMER                          |   |  |  |
| TV channel storage capacity          | 99 positions (+AUX position)  |  |  |
| Tuning system                        | Frequency synthesized tuner   |  |  |
| Channel coverage (PAL)               | VHF : 44.5 MHz - 143 MHz/143 MHz - 470 MHz<br>UHF : 470 MHz - 862 MHz   | VHF : 47 MHz - 89 MHz/104 MHz - 300 MHz/302 MHz - 470 MHz<br>UHF : 470 MHz - 862 MHz | VHF(LOW): 47MHz - 89MHz(E2 - E4,X,Y,Z)<br>VHF(HIGH): 104MHz-300MHz(E5 - E12, S1-S20, M1 - M10, U1 - U10)<br>Hyper: 302MHz - 470MHz (S21-S41)<br>UHF: 470MHz - 862MHz (E21 - E69) |
| Channel coverage(SECAM-L)            | -   |  | VHF(LOW): 49MHz - 65MHz (2-4)<br>VHF(HIGH): 104MHz - 300 MHz (5-10, CATV)<br>Hyper : 300MHz - 470MHz (CATV)<br>UHF : 470MHz - 862MHz (21 - 69)                                   |
| Memory backup time                   | Approx. 60 minutes  |  |  |
| ACCESSORIES                          |   |  |  |
| Provided accessories                 | RF cable, 21-pin SCART cable, Satellite Controller, Infrared remote control unit, "AA(R6)" battery × 2  |  |  |



- Specifications shown are for SP mode unless otherwise specified.
- E.& O.E. Design and specifications subject to change without notice.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- SHOWVIEW is a trademark of Gemstar Development Corporation. The SHOWVIEW system is manufactured under licence from Gemstar Development Corporation.(EU/EY/EZ/EF MODEL)
- VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.(EK MODEL)
- i.Link refers to the IEEE 1394-1995 industry specification and extensions thereof. The i.Link logo is used for products compliant with the i.Link standard.

# SECTION 1 PRECAUTION

## 1.1 SAFTY PRECAUTIONS

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

### 1.1.1 Precautions during Servicing

- (1) Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- (2) Parts identified by the  symbol and shaded (  ) parts are critical for safety. Replace only with specified part numbers.

#### NOTE :

**Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.**

- (3) Fuse replacement caution notice.  
Caution for continued protection against fire hazard.  
Replace only with same type and rated fuse(s) as specified.
- (4) Use specified internal wiring. Note especially:
  - Wires covered with PVC tubing
  - Double insulated wires
  - High voltage leads
- (5) Use specified insulating materials for hazardous live parts.  
Note especially:
  - Insulation Tape
  - PVC tubing
  - Spacers
  - Insulation sheets for transistors
  - Barrier
- (6) When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

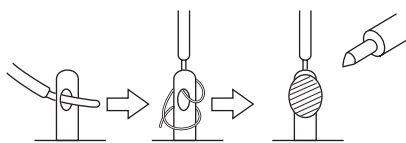


Fig.1-1-1

- (7) Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- (8) Check that replaced wires do not contact sharp edged or pointed parts.
- (9) When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

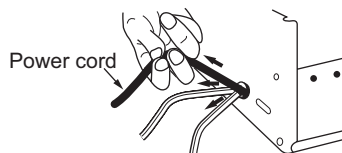


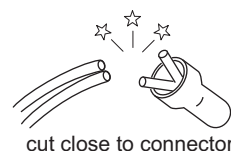
Fig.1-1-2

- (10) Also check areas surrounding repaired locations.
- (11) Products using cathode ray tubes (CRTs) In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission.

Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

- (12) Crimp type wire connector In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

- **Connector part number** :E03830-001
- **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
- **Replacement procedure**
  - a) Remove the old connector by cutting the wires at a point close to the connector. Important : Do not reuse a connector (discard it).



cut close to connector

Fig.1-1-3

- b) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

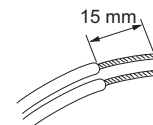


Fig.1-1-4

- c) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

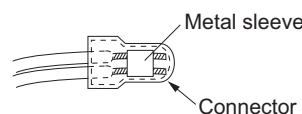


Fig.1-1-5

- d) As shown in Fig.1-1-6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

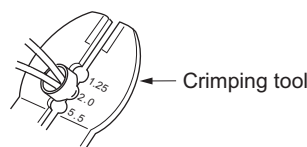


Fig.1-1-6

- e) Check the four points noted in Fig.1-1-7.

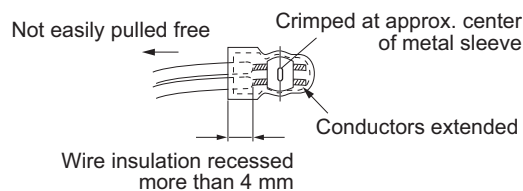


Fig.1-1-7

### 1.1.2 Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

#### (1) Insulation resistance test

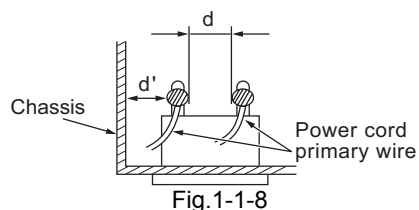
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

#### (2) Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See Fig.1-1-11 below.

#### (3) Clearance distance

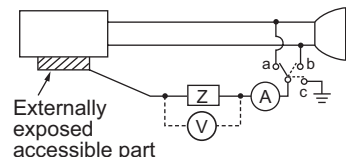
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See Fig.1-1-11 below.



#### (4) Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

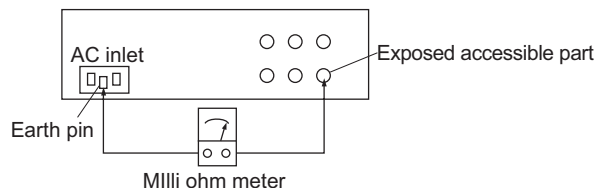
Measuring Method : (Power ON) Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig.1-1-9 and following Fig.1-1-12.



#### (5) Grounding (Class 1 model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.). Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See Fig.1-1-10 and grounding specifications.



Grounding Specifications

| Region             | Grounding Impedance (Z)  |
|--------------------|--------------------------|
| USA & Canada       | $Z \leq 0.1 \text{ ohm}$ |
| Europe & Australia | $Z \leq 0.5 \text{ ohm}$ |

Fig.1-1-10

| AC Line Voltage              | Region             | Insulation Resistance (R)   | Dielectric Strength   | Clearance Distance (d), (d')  |
|------------------------------|--------------------|---|---|---|
| 100 V                        | Japan              | $R \geq 1 \text{ M}\Omega/500 \text{ V DC}$                         | AC 1 kV 1 minute  | $d, d' \geq 3 \text{ mm}$   |
| 100 to 240 V                 |                    |   | AC 1.5 kV 1 minute  | $d, d' \geq 4 \text{ mm}$   |
| 110 to 130 V                 | USA & Canada       | $1 \text{ M}\Omega \leq R \leq 12 \text{ M}\Omega/500 \text{ V DC}$ | AC 1 kV 1 minute  | $d, d' \geq 3.2 \text{ mm}$   |
| 110 to 130 V<br>200 to 240 V | Europe & Australia | $R \geq 10 \text{ M}\Omega/500 \text{ V DC}$                        | AC 3 kV 1 minute (Class II)<br>AC 1.5 kV 1 minute (Class I) | $d \geq 4 \text{ mm}$<br>$d' \geq 8 \text{ mm}$ (Power cord)<br>$d' \geq 6 \text{ mm}$ (Primary wire) |

Fig.1-1-11

| AC Line Voltage              | Region             | Load Z  | Leakage Current (i)                                      | a, b, c                  |
|------------------------------|--------------------|---|--|--------------------------|
| 100 V                        | Japan              | $1 \text{ k}\Omega$                                       | $i \leq 1 \text{ mA rms}$                                | Exposed accessible parts |
| 110 to 130 V                 | USA & Canada       | $0.15 \mu\text{F}$ in parallel with $1.5 \text{ k}\Omega$ | $i \leq 0.5 \text{ mA rms}$                              | Exposed accessible parts |
| 110 to 130 V<br>220 to 240 V | Europe & Australia | $2 \text{ k}\Omega$                                       | $i \leq 0.7 \text{ mA peak}$<br>$i \leq 2 \text{ mA dc}$ | Antenna earth terminals  |
|                              |                    | $50 \text{ k}\Omega$                                      | $i \leq 0.7 \text{ mA peak}$<br>$i \leq 2 \text{ mA dc}$ | Other terminals          |

Fig.1-1-12

#### NOTE :

These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

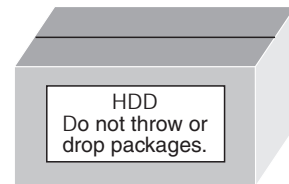
## 1.2 Hard Disk Drive (HDD) Handling Precautions

The HDD is a precision device for use in reading and writing a large amount of data on or from a disk rotating at a high speed. If it is not handled carefully, either abnormal operation may result or it may not be possible to read data. The HDD is sensitive to the following items and special care is required in safeguarding against them when handling an HDD. Also take care in handling a set incorporating an HDD.

- (1) Vibrations and impacts
- (2) Static electricity
- (3) Rough handling

### 1.2.1 Handling in transport, etc.

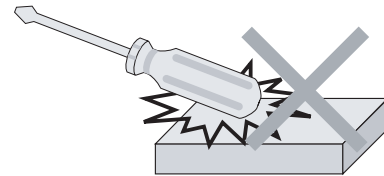
- Be sure to place the HDD in the manufacturer's specified package carton before transport.
- When receiving a package containing an HDD, check that the package carton is not damaged (such as having holes in the carton, crushed corners, etc.).
- Do not impact the packaging carton when loading or unloading it.
- It is not permitted to use the inner package carton only for transporting an HDD.
- Do not stack package cartons one upon another.



Be sure to package and transport the HDDs correctly.

### 1.2.2 Handling an HDD in the stand-alone status

- When handling an HDD on a hard workbench, place an anti-static mat (rubber sheet) or similar object on the hard surface (to prevent any impacts occurring between the HDD and bench).
- Do not stack the HDDs one upon another.
- Do not knock an HDD with a hard object (such as a screwdriver).
- Do not place an HDD on its side panel without using a support (do not place an HDD in an unstable position).



### 1.2.3 Handling the installation of an HDD

- Place antistatic mats or similar sheets on all of the surfaces on which work is conducted or when the HDD is transported.
- Do not permit the HDD to knock against the set's brackets.
- When screwing the brackets, be careful not to knock the HDD. When using a power screwdriver, use a low-shock model and arrange the tightening torque properly.
- When mounting an HDD in a main body, take care not to apply excessive force to the brackets.

## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

#### 2.1 Different table of features

The following table indicates main different points between models DR-MX1SEK, DR-MX1SEU/EY/EZ and DR-MX1SEF.

| ITEM                  | DR-MX1SEK                       | DR-MX1SEU / EY / EZ                                | DR-MX1SEF               |
|-----------------------|---------------------------------|--|-------------------------|
| POWER PLUG            | 3PIN                            | CEE  | ←                       |
| VHS                   | PAL/NTSC PB on PAL TV with HiFi | PAL/MESECAM (MANUAL) / NTSC PB on PAL TV with HiFi | ←                       |
| BROADCASTING STANDARD | I                               | B/G, D/K   | L, L', B/G              |
| STEREO DECODER        | NICAM                           | NICAM/A2   | NICAM(L, B/G) / A2(B/G) |
| VCR PLUS+             | VIDEO Plus+DELUXE               | SHOWVIEW DELUXE                                    | ←                       |
| VPS/PDC               | NOT USED                        | USED   | NOT USED                |

#### Note:

Mark ← as same as left.

#### 2.2 Service position

This unit has been designed so that the Mechanism and Main board assemblies can be removed together from the bottom chassis. Before diagnosing or servicing the circuit boards, take out the major parts from the bottom chassis.

##### 2.2.1 How to set the "Service position"

- (1) Refer to the disassembly procedure and perform the disassembly of the major parts before removing the Mechanism assembly.
- (2) Remove the screws that fix the Mechanism, Main board assembly to the bottom chassis. If any other screws are used to fix the boards, remove them also.
- (3) Remove the combined Mechanism, HDD, DVD unit, switching regulator, digital, junction and Main board assemblies.
- (4) If any other major parts are used, remove them also.
- (5) Connect the wires and connectors of the major parts that have been removed in steps (1) to (4). (Refer to Fig. 2-2a.)
- (6) Place the combined Mechanism, Main board and other board assemblies upside down.
- (7) Insert the power cord plug into the power outlet and then proceed with the diagnostics and servicing of the board assembly.

#### Notes:

- Before inserting the power cord plug into the power outlet, make sure that none of the electrical parts are able to short-circuit between the workbench and the board assembly.
- For the disassembly procedure of the major parts and details of the precautions to be taken, see "Removing the major parts".
- If there are wire connections from the Main board and Mechanism assemblies to the other major parts, be sure to remove them (including wires connected to the major parts) first before performing step (2).
- When carrying out diagnosis and repair of the Main board assembly in the "Service position", be sure to ground both the Main board and Mechanism assemblies. If they are improperly grounded, there may be noise on the playback picture or FDP counter display may move even when the mechanism is kept in an inoperative status.

- In order to diagnose the playback or recording of the cassette tape, set the Mechanism assembly to the required mode before placing it upside down. If the mechanism mode is changed (including ejection) while it is in an upside down position the tape inside may be damaged.
- For some models, the mechanism and board assemblies are attached by connectors only. When carrying out a diagnosis or repair of the boards in the "Service position", make sure that the connectors are not disconnected.

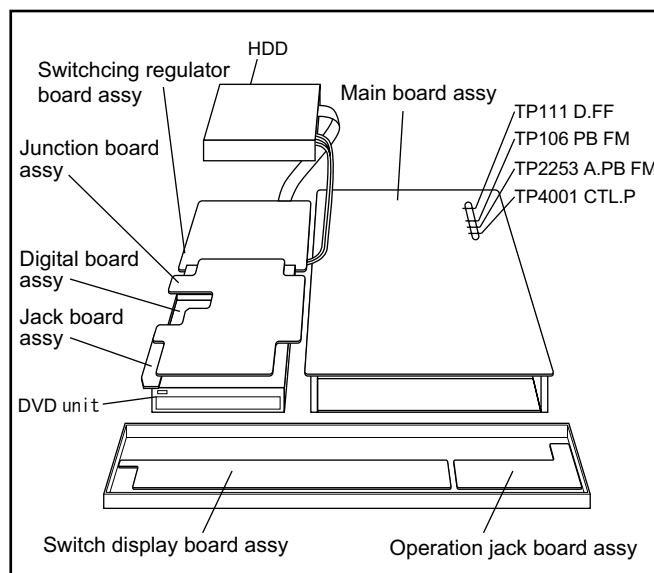


Fig.2-2a

### 2.3 Jig RCU mode

This unit uses the following two modes for receiving remote control codes.

- (1) User RCU mode: Ordinary mode for use by the user.
- (2) Jig RCU mode: Mode for use in production and servicing.

When using the Jig RCU, it is required to set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). As both of the above two modes are stored in the EEPROM, it is required to set the unit back to the User RCU mode each time that an adjustment is made or to check that the necessary operations have been completed. These modes can be set by the operations described below.

#### Note:

- When the unit is set to Jig RCU mode and when the unit is under Jig RCU mode, the remote control unit attached to product operates only in "Remote Control Code 1". Since the unit is in "Remote Control Code 3" when it is shipped and just after its batteries are changed, "Remote Control Code 3" needs to be changed to "Remote Control Code 1."
- Confirm the RCU mode when exchanged parts. Since some SERVICE PARTS sets the unit to the Jig RCU mode as initial setting. Therefore please set the unit to the user RCU mode after replacing the EEPROM.

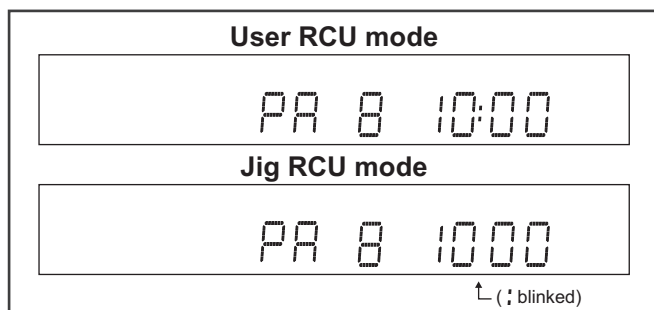


Fig.2-3a User/Jig RCU mode

#### 2.3.1 Changing Remote Control Code

- (1) Slide the TV/CABLE/SAT/DVD switch to DVD.
- (2) Press the numeric button "1" of the remote control unit while pressing the "SET UP" button of the remote control unit. Then, press the "ENTER" button, and then release the "SET UP" button.
- (3) Press the "POWER" button on the unit to turn off the unit.
- (4) Press the "PLAY" button on the unit for over 5 seconds while the unit is turned off. The code currently set appears on the front display panel.
- (5) Press the "STOP" button on the remote control to change the unit's code. When FDP indicator displays "DVD1," it means that the Remote Control Code has been changed to "1."

#### 2.3.2 Setting the Jig RCU mode

- (1) Turn on the power.
- (2) Press the "VHS/HDD/DVD SELECT" button repeatedly on the unit so that the VHS lamp lights up on the unit.
- (3) Press the following remote keys continuously within 2 seconds "SET UP" → "2" → "8" → "ENTER".  
When the unit is set to the Jig RCU mode, the symbols (":") in the time display of the FDP are blinked.  
(Refer to Fig.2-3a User/Jig RCU mode)

#### 2.3.3 Setting the User RCU mode

- (1) Turn off the power.

- (2) Press the "REC" and "PAUSE" buttons of the VCR simultaneously. Alternatively, transmit the code "43-9D" from the Jig RCU.

### 2.4 Mechanism service mode

This model has a unique function to enter the mechanism into every operation mode without loading of any cassette tape. This function is called the "Mechanism service mode".

#### 2.4.1 How to set the "Mechanism service mode"

- (1) Set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received)
- (2) Transmit the code "43-E5" from the Jig RCU.
- (3) Release the lug of the Cassette holder and then slide the Cassette holder toward the direction where the Cassette holder is loaded by manually.
- (4) The cassette holder lowers and, when the loading has completed, the mechanism enters the desired mode.  
When the unit is set to the Mechanism service mode, the symbols ("TIMER") in the FDP (LED) are blinked.

#### 2.4.2 How to exit from the "Mechanism service mode"

- (1) Unplug the power cord plug from the power outlet.

### 2.5 Maintenance and inspection

#### 2.5.1 Cleaning

Regular cleaning of the transport system parts is desirable but practically impossible. So make it a rule to carry out cleaning of the tape transport system whenever the machine is serviced. When the video head, tape guide and/or brush get soiled, the playback picture may appear inferior or at worst disappear, resulting in possible tape damage.

#### Note:

- Absolutely avoid sweeping the upper drum vertically as this will cause damage to the video head.
- (1) When cleaning the upper drum (especially the video head), soak a piece of closely woven cloth with alcohol and while holding the cloth onto the upper drum by the fingers, turn the upper drum counterclockwise.
  - (2) To clean the parts of the tape transport system other than the upper drum, use a piece of closely woven cloth or a cotton swab soaked with alcohol.
  - (3) After cleaning, make sure that the cleaned parts are completely dry before using the cassette tape.

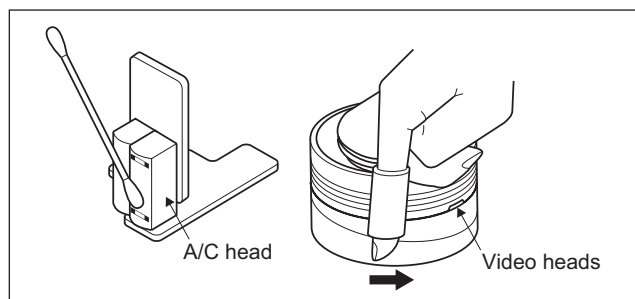


Fig.2-5a

#### 2.5.2 Lubrication

With no need for periodical lubrication, you have only to lubricate new parts after replacement. If any oil or grease on contact parts is soiled, wipe it off and newly lubricate the parts.

#### Note:

- See the "mechanism assembly" diagram of the "parts list" for the lubricating or greasing spots, and for the types of oil or grease to be used.

### 2.5.3 Suggested servicing schedule for main components

The following table indicates the suggested period for such service measures as cleaning, lubrication and replacement. In practice, the indicated periods will vary widely according to environmental and usage conditions. However, the indicated components should be inspected when a set is brought for service and the maintenance work performed if necessary. Also note that rubber parts may deform in time, even if the set is not used.

| System         | Parts name                | Operation hours |       |
|----------------|---------------------------|-----------------|-------|
|                |                           | 1000H           | 2000H |
| Tape transport | Drum assembly             | C,X             | X     |
|                | A/C head                  | C,X             | C,X   |
|                | Pinch roller arm assembly | C               | C     |
|                | Full erase head           | C               | C     |
|                | Tension arm assembly      | C               | C     |
|                | Capstan motor (Shaft)     | C               | C     |
|                | Guide arm assembly        | C               | C     |
| Drive          | Capstan motor             |                 | X     |
|                | Capstan brake assembly    |                 | X     |
|                | Main brake assembly       |                 | X     |
|                | Belt (Capstan)            | X               | X     |
|                | Loading motor             |                 | X     |
|                | Clutch unit               |                 | X     |
|                | Worm gear                 |                 | X     |
|                | Control plate             |                 | X     |
| Other          | Rotary encoder            |                 | X     |

C : Cleaning

X : Inspection or Replacement if necessary

## SECTION 3 DISASSEMBLY

### 3.1 Removing the major parts

#### 3.1.1 Destination of connectors

Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.

↔ : Flat wire ↔ : Wire ↔ : Board to board (B-B)

■ : The connector of the side to remove

| CONN. No. | CONNECTOR |       |   |         | PIN No. |    |
|-----------|-----------|-------|---|---------|---------|----|
| WR2a      | Main      | CN101 | ↔ | Digital | CN761   | 40 |
| WR2b      | Main      | CN103 | ↔ | Digital | CN762   | 10 |

#### ■ Destination of connectors

| CONN. No.          | CONNECTOR        |        |   |                | PIN No. |    |
|--------------------|------------------|--------|---|----------------|---------|----|
| WR2a               | Main             | CN7112 | ↔ | Operation/jack | CN7201  | 9  |
| WR2b               | Main             | CN3102 | ↔ | Switch/display | CN7001  | 11 |
| WR2c               | Junction         | CN7103 | ↔ | Switch/display | CN7002  | 4  |
| WR3a               | Main             | CN2001 | ↔ | A/C head       |         | 6  |
| WR3b               | Drum<br>assembly |        | ↔ | Main           | CN1     | 9  |
| WR4a               | DVD unit         |        | ↔ | Digital        | CN2201  | 40 |
| WR4b               | DVD unit         |        | ↔ | Junction       | CN5304  | 4  |
| WR5a               | HDD              |        | ↔ | Digital        | CN2101  | 40 |
| WR5b               | Junction         | CN7106 | ↔ | Digital        | CN1405  | 4  |
| WR5c               | Junction         | CN5502 | ↔ | Digital        | CN1003  | 6  |
| CN7108<br>(CN1001) | Junction         | CN7108 | ↔ | Digital        | CN1001  | 28 |
| CN7109<br>(CN1002) | Junction         | CN7109 | ↔ | Digital        | CN1002  | 20 |
| CN7121<br>(CN1801) | Junction         | CN7121 | ↔ | Digital        | CN1801  | 10 |
| WR6a               | Junction         | CN7126 | ↔ | Jack           | CN4104  | 6  |
| WR7a               | Junction         | CN7123 | ↔ | Video switch   | CN501   | 4  |
| WR7b               | Main             | CN3103 | ↔ | Junction       | CN7102  | 15 |
| WR7c               | Main             | CN2601 | ↔ | Junction       | CN8001  | 11 |
| WR7d               | Junction         | CN7107 | ↔ | Main           | CN7111  | 9  |
| WR7e               | SW. REG.         | CN5304 | ↔ | Junction       | CN5501  | 19 |
| WR8a               | SW. REG.         | CN5301 | ↔ | Main           | CN5311  | 15 |
| WR8b               | SW. REG.         | CN5302 | ↔ | Fun motor      |         | 2  |
| WR8c               | SW. REG.         | CN5303 | ↔ | HDD            |         | 4  |
| WR12a              | Tuner            | CN6001 | ↔ | Main           | CN7116  | 14 |
| WR12b              | Tuner            | CN6003 | ↔ | Main           | CN7118  | 7  |
| WR12c              | Tuner            | CN6002 | ↔ | Main           | CN7117  | 13 |
| WR13a              | Main             | CN7119 | ↔ | SECAM          | CN301   | 15 |
| WR13b              | Video switch     | CN504  | ↔ | SECAM          | CN4302  | 6  |

#### 3.1.2 How to read the procedure table

This table shows the steps for disassembly of the externally furnished parts and board assemblies. Reverse these steps when re-assembling them.

| Step/Loc No. | Part Name | Fig. No. | Point   | Note      |
|--------------|-----------|----------|---|-----------|
| [1]          | Top cover | 3-1a     | 4(S1a),(S1b),3(L1a),<br>2(SD1a),(P1a),(W1a),<br>CN1(WR1a),<br>-----<br>2(S1c) | <Note 1a> |
|              | Bracket   |          |   |           |

↑ (1)
↑ (2)
↑ (3)
↑ (4)
↑ (5)

#### (1) Order of steps in Procedure

When reassembling, perform the step(s) in the reverse order.

These numbers are also used as the identification (location) No. of parts Figures.

#### (2) Part name to be removed or installed.

#### (3) Fig. No. showing procedure or part location.

#### (4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.

P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN\*\*(WR\*\*)= Remove the wire (WR\*\*) from the connector (CN\*\*).

#### Note:

- The bracketed ( ) WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.

#### (5) Adjustment information for installation

#### 3.1.3 Disassembly procedure

| Step/Loc No. | Part Name  | Fig. No.                       | Point  | Note                             |
|--------------|--|--------------------------------|--|----------------------------------|
| [1]          | Top cover  | 3-1d                           | 8(S1a)   |                                  |
| [2]          | Front panel assembly<br>(Operation/jack board assembly)<br>(Switch/display board assembly) | 3-1a,<br>3-1d<br>3-1e          | 3(L2a),5(L2b)<br>CN7112(WR2a)<br>CN3102(WR2b)<br>CN7103(WR2c)  | <Note2a><br><Note2b>             |
| [3]          | Mechanism assembly<br>(Drum assembly)  | 3-1b,<br>3-1c,<br>3-1d<br>3-1e | CN2001(WR3a)<br>3(S3a),(S3b)<br>CN(WR3b)<br>(S3c),(S3d),(S3e)  | <Note2a><br><Note3a><br><Note3b> |
| [4]          | DVD unit<br>(Bracket)  | 3-1d<br>3-1e                   | 4(S4a),4(S4b)<br>(WR4a),(WR4b)   | <Note2a>                         |
| [5]          | Digital board assembly   | 3-1d<br>3-1e                   | 4(S5a),CN2101(WR5a)<br>CN7106(WR5b),CN5502(WR5c)<br>CN7108(CN1001),CN7109(CN1002),<br>CN7121(CN1801) | <Note2a>                         |
| [6]          | Jack board assembly  | 3-1d                           | 2(S6a),CN7126(WR6a)  |                                  |
| [7]          | Junction board assembly  | 3-1d<br>3-1e                   | (S7a),CN7123(WR7a),<br>CN3103(WR7b),CN2601<br>(WR7c),CN7107(WR7d),<br>CN5304(WR7e)                   | <Note2a>                         |
| [8]          | Switching Regulator<br>board assembly  | 3-1d<br>3-1e                   | 4(S8a)<br>CN5301(WR8a),<br>CN5302(WR8b),<br>CN5303(WR8c)   | <Note2a>                         |
| [9]          | Rear cover   | 3-1d                           | (S9a),8(S9b),(S9c),3(L9a)  |                                  |
| [10]         | HDD<br>(Bracket, sheet)  | 3-1d<br>3-1e                   | 4(S10a),4(S10b)  |                                  |
| [11]         | Main board assembly  | 3-1d                           | 2(S11a)  |                                  |
| [12]         | Tuner board assembly   | 3-1d<br>3-1e                   | CN6001(WR12a),CN6003<br>(WR12b),CN6002(WR12c)  |                                  |
| [13]         | SECAM board assembly<br>(EF model)   | 3-1d<br>3-1e                   | 2(S13a), CN7119(WR13a)<br>CN504(WR13b)   |                                  |

#### <Note 2a>

- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.

### <Note 2b>

- When reattaching the Front panel assembly, make sure that the door opener of the Side frame (R) is lowered in position prior to the reinstallation.
- When reattaching the Front panel assembly, pay careful attention to the switch lever of the Front panel assembly not to make it touch the switch knob of the Main board assembly from the side.
- When reattaching the Front panel assembly, lift the Cassette door slightly.

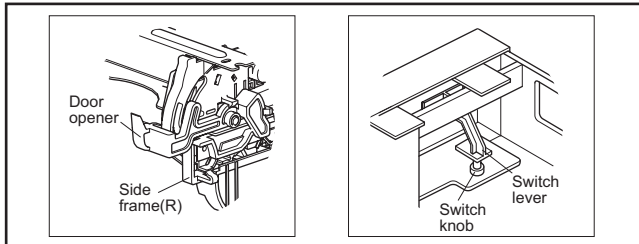


Fig.3-1a

### <Note 3a>

- When reattaching the Mechanism assembly, secure the screws (S3a to S3b) in the order of 1,2,3.

### <Note 3b>

- When reattaching the Mechanism assembly, be sure to align the phase of the Rotary encoder on the Main board assembly.
- When reattaching the Mechanism assembly, set the "Mechanism assembling mode". [See "MECHANISM ASSEMBLY SERVICE MANUAL (No. 86700)".]

- When reattaching the Mechanism assembly to the Main board assembly, take care not to damage the sensors and switch on the Main board assembly.

### <Note 3c>

- When reattaching the Drum assembly, secure the screws (S3c to S3e) in the order of c, d, e.

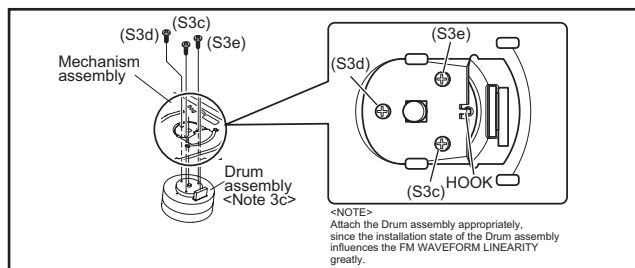


Fig.3-1b

- When handling the drum assembly alone, hold it by the motor or shaft. Be careful not to touch other parts, especially the video heads. Also take care not to damage the connectors.

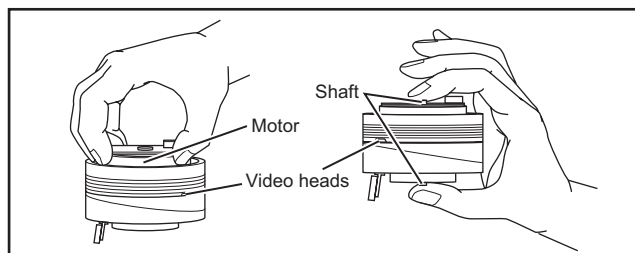


Fig.3-1c

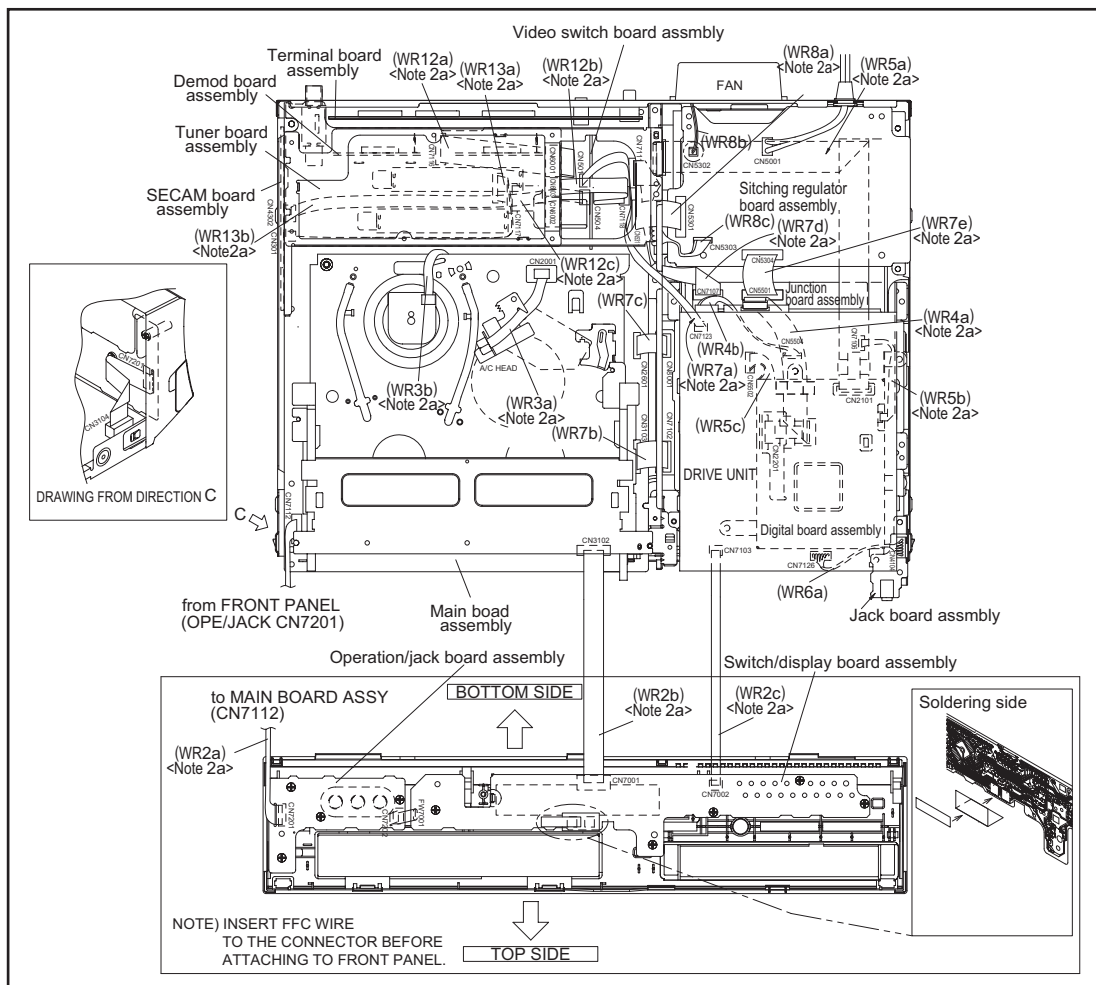


Fig.3-1d

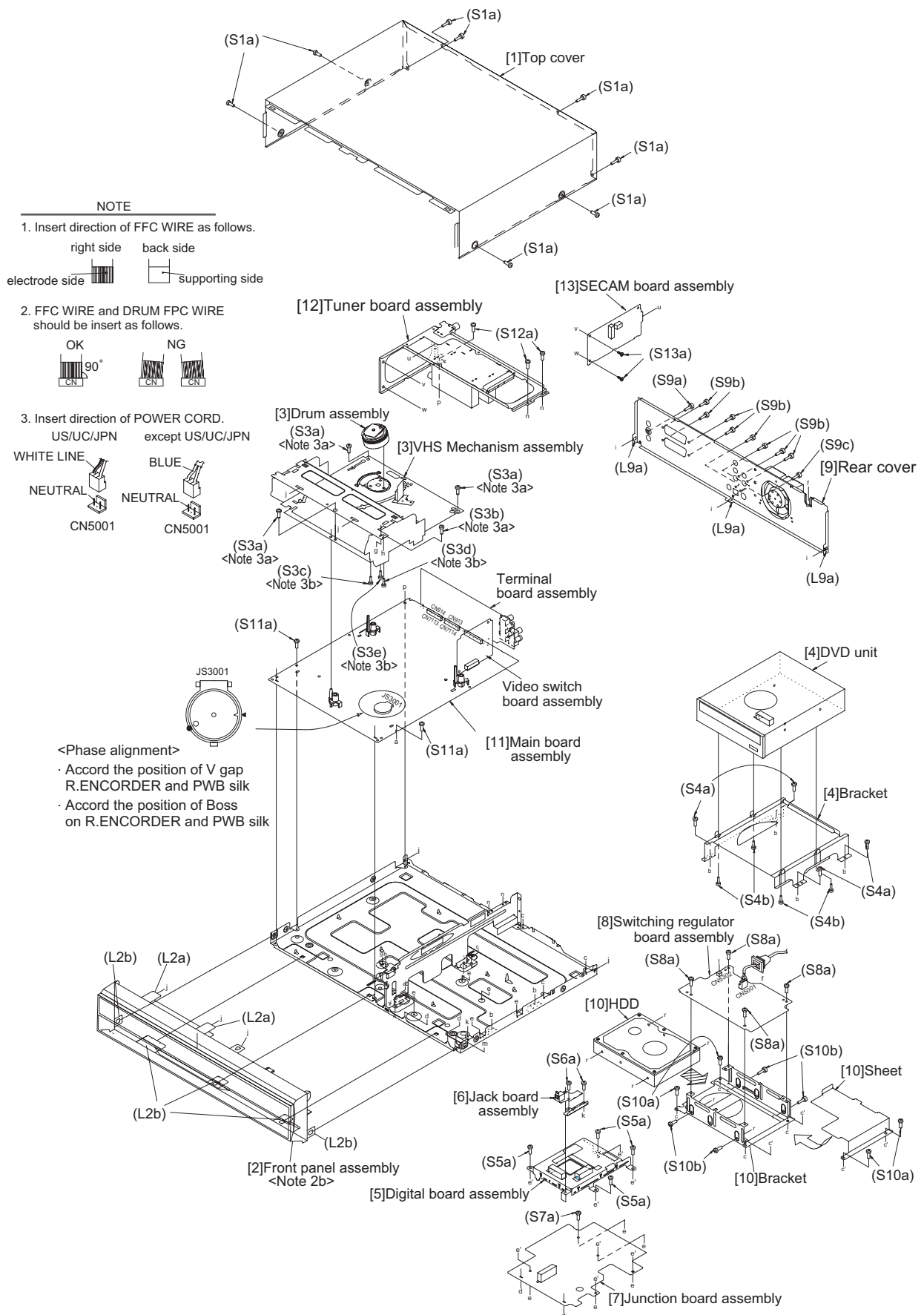


Fig.3-1e

## SECTION 4 ADJUSTMENT

### 4.1 Before adjustment

#### 4.1.1 Precaution

- The adjustments of this unit include the mechanism compatibility and electrical adjustments. During the performance of this work, be sure to observe the precautions for each type of adjustment.
- If there is a reference to a signal input method in the signal column of the adjustment chart, "Ext. S-input" means the Y/C separated video signal and "Ext. input" means the composite video signal input.
- Unless otherwise specified, all measuring points and adjustment parts are located on the Main board.

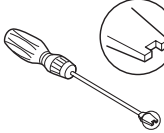
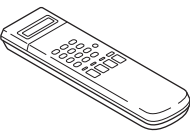
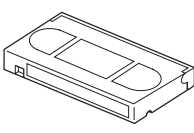
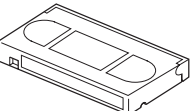
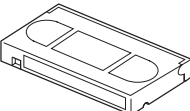
#### 4.1.2 Required test equipments

- Color (colour) television or monitor
- Oscilloscope: wide-band, dual-trace, triggered delayed sweep
- Signal generator: RF / IF sweep / marker
- Signal generator: stairstep, color (colour) bar [PAL]
- Recording tape
- Digit-key remote controller(provided)

#### 4.1.3 Required adjustment tools

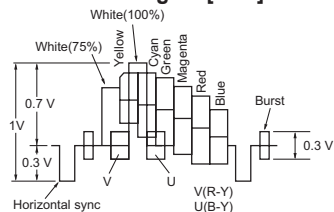
● : Used --- : Not used

|                             | Mechanism compatibility adjustment | Electrical adjustment |
|-----------------------------|------------------------------------|-----------------------|
| Roller driver               | ●                                  | ---                   |
| Jig RCU                     | ---                                | ●                     |
| Back tension cassette gauge | ●                                  | ---                   |
| Alignment tape(MHPE)        | ●                                  | ---                   |
| Alignment tape(MHPE-L)      | ●                                  | ●                     |

| Roller driver<br>PTU94002   | Jig RCU<br>PTU94023B  | Back tension cassette gauge<br>PUJ48076-2   |
|---|---|---|
|  |  |  |
| Alignment tape<br>(SP, stairstep, PAL)<br>MHPE                                      | Alignment tape<br>(LP, stairstep, PAL)<br>MHPE-L                                    |   |
|  |  |   |

### 4.1.4 Color (colour) bar signal, Color (colour) bar pattern

#### • Colour bar signal [PAL]



#### • Colour bar pattern [PAL]

|             |        |            |       |         |     |      |
|-------------|--------|------------|-------|---------|-----|------|
| White (75%) | Yellow | Cyan       | Green | Magenta | Red | Blue |
| V           | U      | White 100% | Black |         |     |      |

### 4.1.5 Switch settings

When adjusting this unit, set the VCR mode and switches as described below.

- When using the Jig RCU, it is required to set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). (See "section 2 SPECIFIC SERVICE INSTRUCTIONS".)

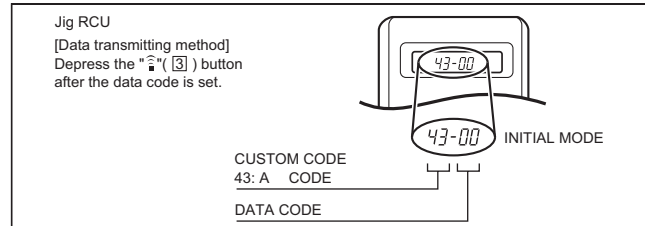


Fig.4-1a Jig RCU [PTU94023B]

- Set the switches as shown below unless otherwise specified on the relevant adjustment chart. The switches that are not listed below can be set as desired.

If the VCR is not equipped with the functions detailed below, setup is not required.

|   |                |
|---|----------------|
| AUTO PICTURE/VIDEO CALIBRATION/ B.E.S.T./D.S.P.C. | OFF            |
| PICTURE CONTROL/SMART PICTURE                     | NORMAL/NATURAL |
| VIDEO STABILIZER                                  | OFF            |
| TBC   | ON             |
| Digital 3R  | ON             |
| VIDEO NAVIGATION/TAPE MANAGER                     | OFF            |
| BLUE BACK   | OFF            |

### 4.1.6 Manual tracking mode (Auto tracking ON/OFF) setting

- (1) In order to set to the manual tracking mode during tape playback, press the "CHANNEL +/-" button on the unit simultaneously.
  - When the manual tracking mode is set, the tracking is placed at the center position.
- (2) Press "CHANNEL +/-" to adjust the tracking manually.

### 4.1.7 EVR Adjustment

Some of the electrical adjustments require the adjustment performed by the EVR system. The main unit have EEPROMs for storing the EVR adjustment data and user setups.

#### Notes:

- In the EVR adjustment mode, the value is varied with the channel buttons (+, -). The adjusted data is stored when the setting mode changes (from PB to STOP, when the tape speed is changed, etc.). Take care to identify the current mode of each adjustment item when making an adjustment.
- When changing the address setting in the EVR adjustment mode, use the Jig RCU or the remote controller having numeric keypad with which a numeric code can be directly input.

The remote control code of the Jig RCU corresponds to each of the digit keys on the remote controller as follows.

|           |    |    |    |    |    |    |    |    |    |    |
|-----------|----|----|----|----|----|----|----|----|----|----|
| Digit-key | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| Code      | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |

- As the counter indication and remaining tape indication are not displayed FDP during the EVR adjustment mode, check them on the TV monitor screen.
- When performing the EVR adjustment, confirm that the FDP indication is changed to the EVR mode.

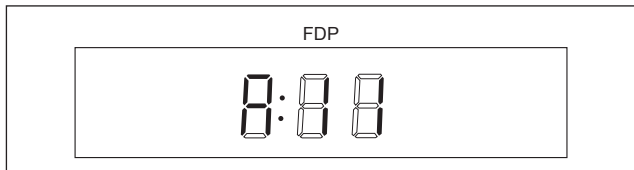


Fig.4-1b EVR mode

## 4.2 Mechanism compatibility adjustment (VHS SECTION)

### Notes:

- Although compatibility adjustment is very important, it is not necessary to perform this as part of the normal servicing work. It will be required when you have replaced the A/C head, drum assembly or any part of the tape transport system.
- To prevent damaging the alignment tape in the compatibility adjustment, prepare a cassette tape (for self-recording/playback), perform a test on it by transporting it and making sure that the tape is not bent by the tape transport mechanisms such as in the guide rollers.(See Fig.4-2b.)

### 4.2.1 Tension pole position

#### Notes:

- This adjustment must be performed every time the tension band is replaced.

|                 |              |  |
|-----------------|--------------|--|
| Signal          | (A)          | • Back tension cassette gauge [PUJ48076-2]       |
| Mode            | (B1)<br>(B2) | • PB<br>• Eject end                              |
| Adjustment part | (F)          | • Adjust pin [Mechanism assembly]                |
| Specified value | (G)          | • 25 - 51 gf•cm (2.45 - 5 x 10 <sup>-3</sup> Nm) |

- (1) Play back the back tension cassette gauge (A).
  - (2) Check that the indicated value on the left side gauge is within the specified value (G).
  - (3) If the indicated value is not within the specified value (G), perform the adjustment in a following procedure.(See Fig.4-2a.)
    - a) Remove the top frame, cassette holder and side frames (L/R) all together. (Refer to the SERVICE MANUAL No.86700 [MECHANISM ASSEMBLY].)
    - b) Rotate the loading motor gear to move the control plate so that the triangular stamping to the left of the "P" stamping is aligned with the stamping (a) on the main deck. This positioning is mode (B1).
    - c) Adjust by turning the adjustment pin so that the tip of the tension arm is aligned with the stamping (b) on the main deck.
    - d) Rotate the reel disk (S) by about one turn clockwise and make sure that the round hole of the adjustment pin is located in the "OK" range. If it is outside this range, restart the adjustment from the beginning.
- After completion of the adjustment, rotate the loading gear motor to return it to the mode (B2) position.

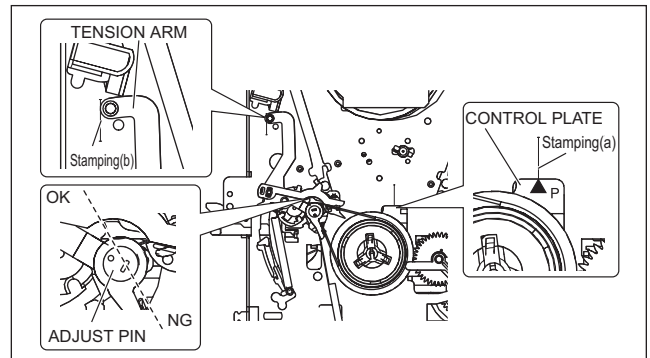


Fig.4-2a

### 4.2.2 FM waveform linearity

|                  |              |  |
|------------------|--------------|--|
| Signal           | (A1)<br>(A2) | • Alignment tape(SP, staircase, PAL) [MHPE]<br>• Alignment tape(LP, staircase, PAL) [MHPE-L] |
| Mode             | (B)          | • PB   |
| Equipment        | (C)          | • Oscilloscope   |
| Measuring point  | (D)          | • TP106 (PB. FM)   |
| External trigger | (E)          | • TP111 (D.FF)   |
| Adjustment part  | (F)          | • Guide roller [Mechanism assembly]  |
| Specified value  | (G)          | • Flat V.PB FM waveform  |
| Adjustment tool  | (H)          | • Roller driver [PTU94002]   |

- (1) Play back the alignment tape (A1).
- (2) Apply the external trigger signal to D.FF (E), to observe the V.PB FM waveform at the measuring point (D).
- (3) Set the VCR to the manual tracking mode.
- (4) Make sure that there is no significant level drop of the V.PB FM waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required. (See Fig. 4-2c.)
- (5) Reduce the V.PB FM waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller of the pole base assembly (supply side) with the roller driver to make the V.PB FM waveform linear. If a drop in level is on the right side, likewise turn the guide roller of the pole base assembly (take-up side) with the roller driver to make it linear. (See Fig. 4-2c.)
- (6) Make sure that the V.PB FM waveform varies in parallel and linearly with the tracking operation again. When required, perform fine-adjustment of the guide roller of the pole base assembly (supply or take-up side).
- (7) Unload the cassette tape once, play back the alignment tape (A1) again and confirm the V.PB FM waveform.
- (8) After adjustment, confirm that the tape wrinkling does not occur at the roller upper or lower limits. (See Fig. 4-2b.) [Perform adjustment step (9) only for the models equipped with SP mode and EP (or LP) mode.]

**[Perform adjustment step (9) only for the models equipped with SP mode and EP (or LP) mode.]**

- (9) Repeat steps (1) to (8) by using the alignment tape (A2).

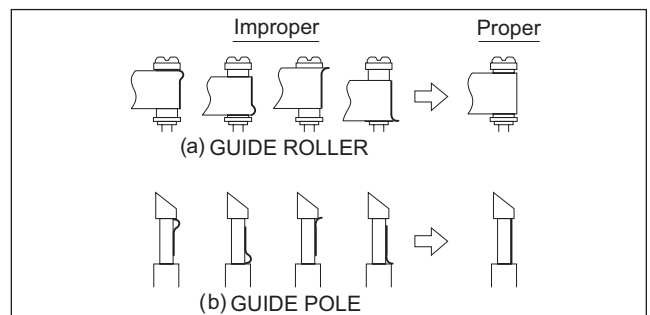


Fig.4-2b

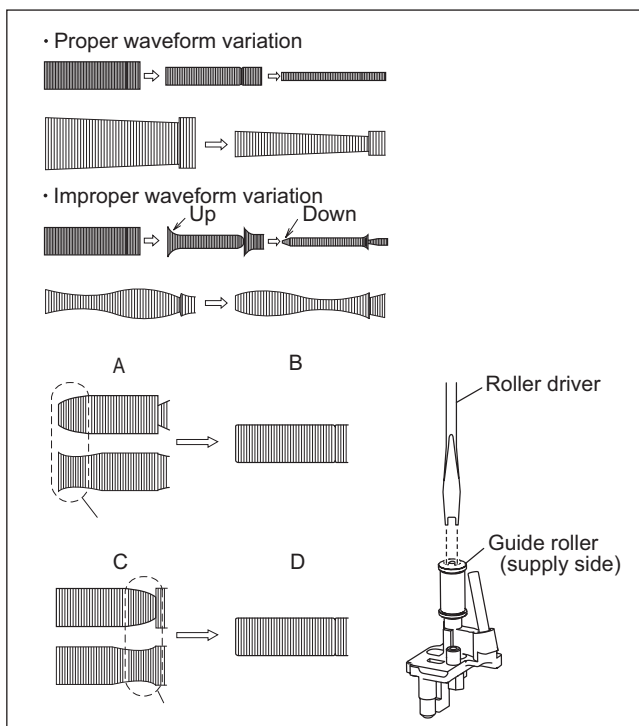


Fig.4-2c

#### 4.2.3 Height and tilt of the A/C head

##### Note:

- Set a temporary level of the height of the A/C head in advance to make the adjustment easier after the A/C head has been replaced. (Refer to the SERVICE MANUAL No.86700 [MECHANISM ASSEMBLY].)

|                  |      |   |
|------------------|------|---|
| Signal           | (A)  | • Alignment tape(SP, stairstep, PAL) [MHPE] |
| Mode             | (B)  | • PB  |
| Equipment        | (C)  | • Oscilloscope                              |
| Measuring point  | (D1) | • TP106 (PB. FM)                            |
|                  | (D2) | • TP4001 (CTL. P)                           |
| External trigger | (E)  | • TP111 (D.FF)                              |
| Adjustment part  | (F)  | • A/C head [Mechanism assembly]             |
| Specified value  | (G)  | • Maximum waveform                          |

- (1) Play back the alignment tape (A).
- (2) Apply the external trigger signal to D.FF (E), to observe the AUDIO OUT waveform and Control pulse waveform at the measuring points (D1) and (D2) in the ALT mode.
- (3) Set the unit to the manual tracking mode.
- (4) Adjust the AUDIO OUT waveform and Control pulse waveform by turning the screws (1), (2) and (3) little by little until both waveforms reach maximum. The screw (1) and (3) are for adjustment of tilt and the screw (2) for azimuth.

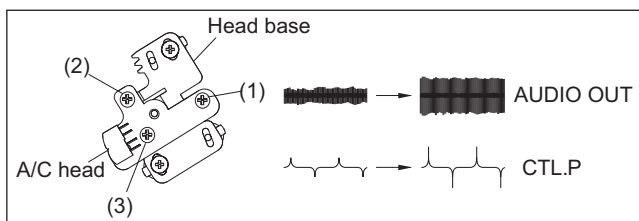


Fig.4-2d

#### 4.2.4 A/C head phase (X-value)

|                  |      |   |
|------------------|------|---|
| Signal           | (A1) | • Alignment tape(SP, stairstep, PAL) [MHPE]   |
|                  | (A2) | • Alignment tape(LP, stairstep, PAL) [MHPE-L] |
| Mode             | (B)  | • PB  |
| Equipment        | (C)  | • Oscilloscope                                |
| Measuring point  | (D)  | • TP106 (PB. FM)                              |
| External trigger | (E)  | • TP111 (D.FF)                                |
| Adjustment part  | (F)  | • A/C head base [Mechanism assembly]          |
| Specified value  | (G)  | • Flat V.PB FM waveform                       |
| Adjustment tool  | (H)  | • Roller driver [PTU94002]                    |

- (1) Play back the alignment tape (A1).
- (2) Apply the external trigger signal to D.FF (E), to observe the V.PB FM waveform at the measuring point (D).
- (3) Set the VCR to the manual tracking mode.
- (4) Loosen the screws (4) and (5), then set the Roller driver to the innermost projected part of the A/C head. (See Fig. 4-2e.)
- (5) Rotate the roller driver so that the A/C head comes closest to the capstan. From there, move the A/C head back gradually toward the drum until the point where the FM waveform is maximized for the second time, and then tighten the screws (4) and (5) temporarily.
- (6) Play an alignment tape (A2) and set to the manual-tracking mode.
- (7) Fine-adjust A/C head base position to maximize the FM waveform, and then tighten the screws (4) and (5) firmly.
- (8) Play alignment tapes (A1) and (A2) and confirm that the FM waveforms are maximized when the tracking is at the center position.

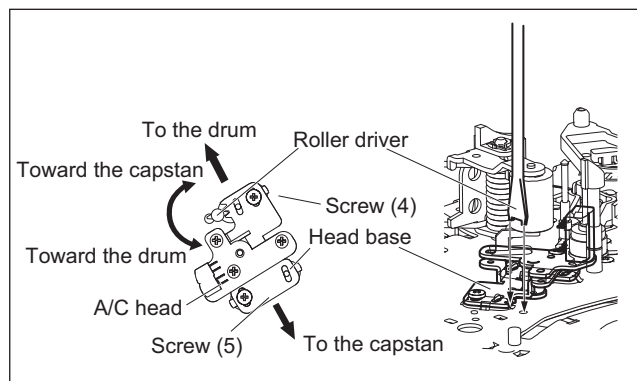


Fig.4-2e

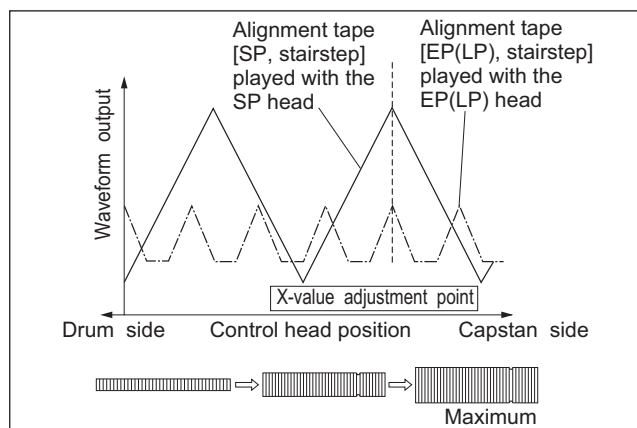


Fig.4-2f

### 4.3 Electrical adjustment

#### Note:

The following adjustment procedures are not only necessary after replacement of consumable mechanical parts or board assemblies, but are also provided as references to be referred to when servicing the electrical circuitry.

In case of trouble with the electrical circuitry, always begin a service by identifying the defective points by using the measuring instruments as described in the following electrical adjustment procedures. After this, proceed to the repair, replacement and/or adjustment. If the required measuring instruments are not available in the field, do not change the adjustment parts (variable resistor, etc.) carelessly.

#### 4.3.1 Servo circuit

##### 4.3.1.1 Switching point

|                      |              |   |
|----------------------|--------------|---|
| Signal               | (A1)<br>(A2) | • Stairstep signal<br>• Alignment tape(LP, stairstep, PAL) [MHPE-L] |
| Mode                 | (B)          | • PB  |
| Equipment            | (C)          | • Oscilloscope  |
| Measuring point (D)  |              | • VIDEO OUT terminal (75 ohm terminated)<br>• TP106 (PB. FM)        |
| External trigger (E) |              | • TP111 (D.FF)  |
| Adjustment part (F)  |              | • Jig RCU: Code "43-5A"   |
| Specified value (G)  |              | • $6.5 \pm 0.5H$  |
| Adjustment tool (H)  |              | • Jig RCU [PTU94023B]   |

- (1) Play back the signal (A1) of the alignment tape (A2).
- (2) Apply the external trigger signal to D.FF (E) to observe the VIDEO OUT waveform and V.PB FM waveform at the measuring points (D1) and (D2).
- (3) Set the VCR to the manual tracking mode.
- (4) Adjust tracking so that the V.PB FM waveform becomes maximum.
- (5) Set the VCR to the Auto adjust mode by transmitting the code (F) from the Jig RCU. When the VCR enters the stop mode, the adjustment is completed.
- (6) If the VCR enters the eject mode, repeat steps (1) to (5) again.
- (7) Play back the alignment tape (A2) again, confirm that the switching point is the specified value (G).

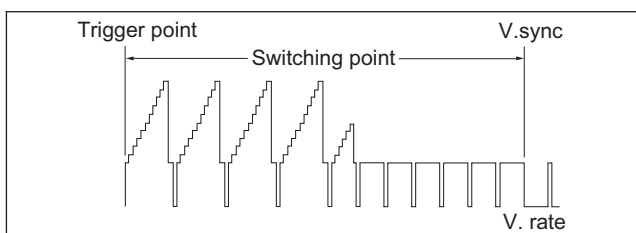


Fig.4-3a Switching point

##### 4.3.1.2 Slow tracking preset

|                     |              |   |
|---------------------|--------------|---|
| Signal              | (A1)<br>(A2) | • Ext. input<br>• Color (colour) bar signal [PAL] |
| Mode                | (B1)<br>(B2) | • VHS SP<br>• VHS LP                              |
| Measuring point (D) |              | • TV-Monitor                                      |
| Adjustment part (F) |              | • Jig RCU: Code "43-71" or "43-72"                |
| Specified value (G) |              | • minimum noise                                   |
| Adjustment tool (H) |              | • Jig RCU [PTU94023B]                             |

- (1) Record the signal (A2) in the mode (B1), and play back the recorded signal.
- (2) Set the VCR to the manual tracking mode.
- (3) Set the VCR to the FWD slow (+1/6x) mode.
- (4) Transmit the code (F) from the Jig RCU to adjust so that the noise bar becomes the specified value (G) on the TV monitor in the slow mode.
- (5) Set the VCR to the Stop mode.
- (6) Confirm that the noise bar is (G) on the TV monitor in the slow mode.
- (7) Repeat steps (3) to (6) in the REV slow (+1/6x) mode.
- (8) Repeat steps (1) to (7) in the mode (B2).

#### Note:

- For FWD slow (+1/6x) playback, transmit the code "43-08" from the Jig RCU to enter the slow playback mode, and transmit the code "43-D0" for REV slow (-1/6x) mode.

#### 4.3.2 DVD Video circuit

##### Note

- When perform these adjustments, set the unit to DVD mode.(DVD lamp lights up)

##### 4.3.2.1 EE Composite Y level

|                     |     |   |
|---------------------|-----|---|
| Signal              | (A) | • Internal colour bar                       |
| Mode                | (B) | • EE  |
| Equipment           | (C) | • Oscilloscope                              |
| Measuring point (D) |     | • L-1 connector pin19                       |
| EVR mode (F1)       |     | • Jig code "43-95"                          |
| EVR address (F2)    |     | • "ADJUST01 : **"                           |
| (F3)                |     | • Jig code "43-21"                          |
| (F4)                |     | • Jig code "43-18" or "43-19" (Channel +/-) |
| (F5)                |     | • Jig code "43-3C"                          |
| Specified value (G) |     | • $1.00 \pm 0.02$ Vp-p (terminated)         |
| Adjustment tool (H) |     | • Jig RCU [PTU94023B]                       |

- (1) Observe the V OUT waveform at the measuring point (D).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the Y level of the V OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

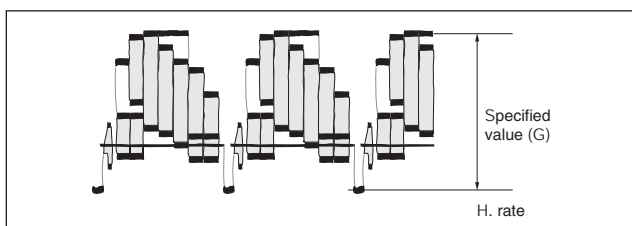


Fig.4-3b EE composite Y level

#### 4.3.2.2 EE Y level

|                 |      |   |
|-----------------|------|---|
| Signal          | (A1) | • Ext. input                                |
|                 | (A2) | • Color (colour) bar signal                 |
| Mode            | (B)  | • EE  |
| Equipment       | (C)  | • Oscilloscope                              |
| Measuring point | (D)  | • L-1 connector pin19                       |
| EVR mode        | (F1) | • Jig code "43-95"                          |
| EVR address     | (F2) | • "ADJUST02 : ***"                          |
|                 | (F3) | • Jig code "43-22"                          |
|                 | (F4) | • Jig code "43-18" or "43-19" (Channel +/-) |
|                 | (F5) | • Jig code "43-3C"                          |
| Specified value | (G)  | • $1.00 \pm 0.02$ Vp-p (terminated)         |
| Adjustment tool | (H)  | • Jig RCU [PTU94023B]                       |

- (1) Observe the V OUT waveform at the measuring point (D).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the Y level of the V OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

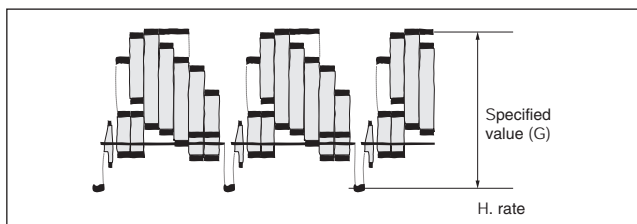


Fig.4-3c EE Y level

#### 4.3.2.3 EE composite burst level

|                 |      |   |
|-----------------|------|---|
| Signal          | (A)  | • Internal colour bar                       |
| Mode            | (B)  | • EE  |
| Equipment       | (C)  | • Oscilloscope                              |
| Measuring point | (D)  | • L-1 connector pin19                       |
| EVR mode        | (F1) | • Jig code "43-95"                          |
| EVR address     | (F2) | • "ADJUST00 : ***"                          |
|                 | (F3) | • Jig code "43-20"                          |
|                 | (F4) | • Jig code "43-18" or "43-19" (Channel +/-) |
|                 | (F5) | • Jig code "43-3C"                          |
| Specified value | (G)  | • $0.30 \pm 0.01$ Vp-p (terminated)         |
| Adjustment tool | (H)  | • Jig RCU [PTU94023B]                       |

- (1) Observe the V OUT waveform at the measuring point (D).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the burst level of the V OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

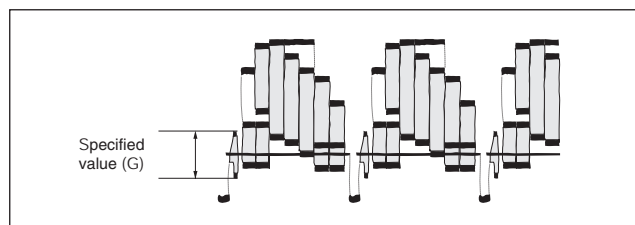


Fig.4-3d EE composite burst level

#### 4.3.2.4 EE R/G/B level

|                 |      |   |
|-----------------|------|---|
| Signal          | (A)  | • Internal colour bar                       |
| Mode            | (B)  | • EE  |
| Equipment       | (C)  | • Oscilloscope                              |
| Measuring point | (D1) | • L-1 connector pin15(R)                    |
|                 | (D2) | • L-1 connector pin11(G)                    |
|                 | (D3) | • L-1 connector pin7(B)                     |
| EVR mode        | (F1) | • Jig code "43-95"                          |
| EVR address     | (F2) | • "ADJUST05 : ***"                          |
|                 | (F3) | • Jig code "43-25"                          |
|                 | (F4) | • Jig code "43-18" or "43-19" (Channel +/-) |
|                 | (F5) | • Jig code "43-3C"                          |
| Specified value | (G)  | • $0.70 \pm 0.02$ Vp-p (terminated)         |
| Adjustment tool | (H)  | • Jig RCU [PTU94023B]                       |

- (1) Observe the R OUT waveform at the measuring point (D1).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the R level of the R OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)
- (6) Observe the G OUT waveform at the measuring point (D2).
- (7) Repeat steps (2) to (5) above.
- (8) Observe the B OUT waveform at the measuring point (D3).
- (9) Repeat steps (2) to (5) above.

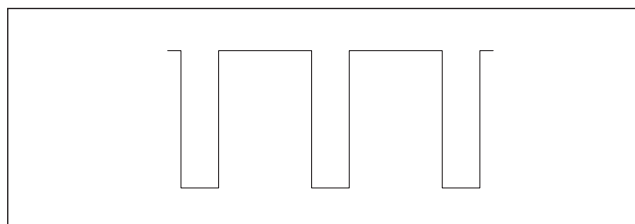


Fig.4-3e EE R/G/B level

#### 4.3.2.5 EE COMPONENT PB/CB level

|                 |      |   |
|-----------------|------|---|
| Signal          | (A)  | • Internal colour bar                       |
| Mode            | (B)  | • EE  |
| Equipment       | (C)  | • Oscilloscope                              |
| Measuring point | (D)  | • COMPONENT PB/CB terminal                  |
| EVR mode        | (F1) | • Jig code "43-95"                          |
| EVR address     | (F2) | • "ADJUST06 : ***"                          |
|                 | (F3) | • Jig code "43-26"                          |
|                 | (F4) | • Jig code "43-18" or "43-19" (Channel +/-) |
|                 | (F5) | • Jig code "43-3C"                          |
| Specified value | (G)  | • $0.70 \pm 0.02$ Vp-p (terminated)         |
| Adjustment tool | (H)  | • Jig RCU [PTU94023B]                       |

- (1) Observe the CB OUT waveform at the measuring point (D).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the CB level of the CB OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

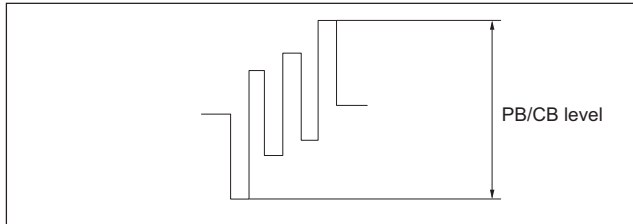


Fig.4-3f EE component PB/CB level

### 4.3.3 Syscon circuit

#### 4.3.3.1 Timer clock

|                 |      |  |
|-----------------|------|--|
| Signal          | (A)  | • No signal                                      |
| Mode            | (B)  | • EE   |
| Equipment       | (C)  | • Frequency counter                              |
| Measuring point | (D1) | • IC3001 pin 61                                  |
|                 | (D2) | • IC3001 pin 17                                  |
|                 | (D3) | • C3026 + and -                                  |
| Adjustment part | (F)  | • C3025 (TIMER CLOCK)                            |
| Specified value | (G)  | • 1024.008 ± 0.01 Hz<br>(976.5549 ± 0.0010 usec) |

- (1) Connect the frequency counter to the measuring point (D1).
- (2) Connect the short wire between the short point (D2) and Vcc (5V).
- (3) Short the leads of capacitor (D3) once in order to reset the microprocessor of the Syscon.
- (4) Disconnect the short wire between the short point (D2) and Vcc then connect it again.
- (5) Adjust the Adjustment part (F) so that the output frequency becomes the specified value (G).

## SECTION 5 TROUBLESHOOTING

### 5.1 Manually removing the cassette tape

If you cannot remove the cassette tape which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

- (1) Unplug the power cord plug from the power outlet.
- (2) Refer to the disassembly procedure of the unit and perform the disassembly of the major parts before removing the mechanism assembly. (See Fig. 5-1a)

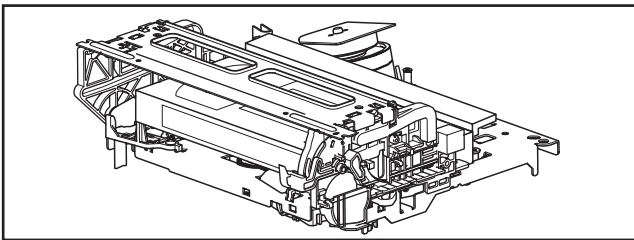


Fig.5-1a

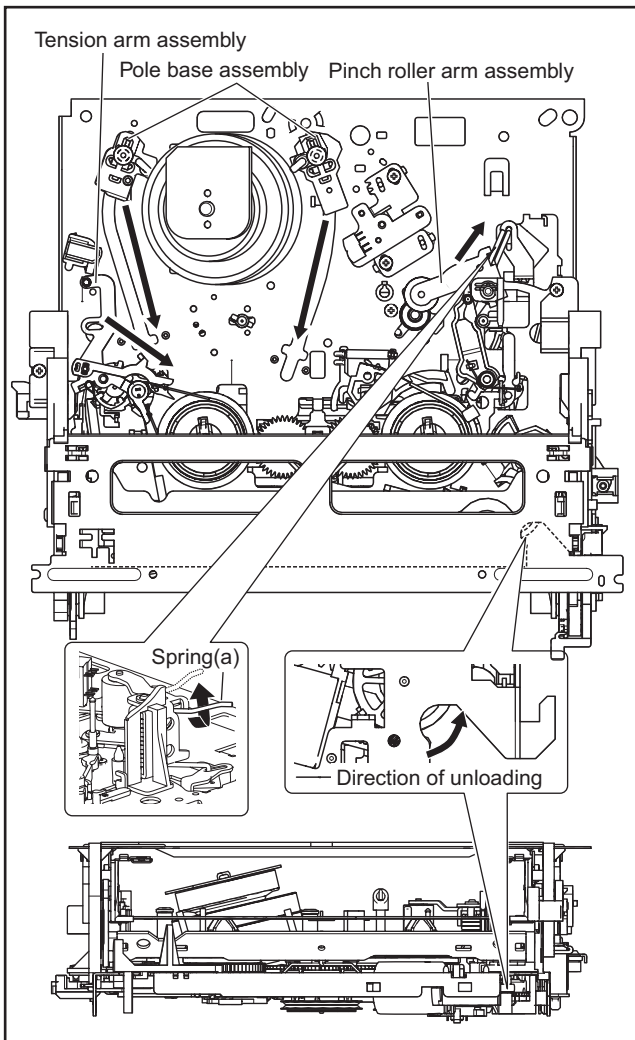


Fig.5-1b

- (3) Unload the pole base assembly by manually turning the gear of the loading motor until the pole base assembly is hidden behind the cassette lid. In doing so, hold the tape by the hand to keep the slack away from any grease. (See Fig. 5-1b )

**In case of mechanical failures, while keeping the ten-**

**sion arm assembly free from tension, pull out the tape on the pole base assembly. Take the spring(a) of the pinch roller arm assembly off the hook, and detach it from the tape.**

- (4) Remove the screw (a) of the side frame (L/R).
- (5) Hold the slack tape and cassette cover together, lift the cassette tape, top frame, cassette holder and side frames (L, R) together from the rear and remove them by dis-engaging the hooks (a) and (b).

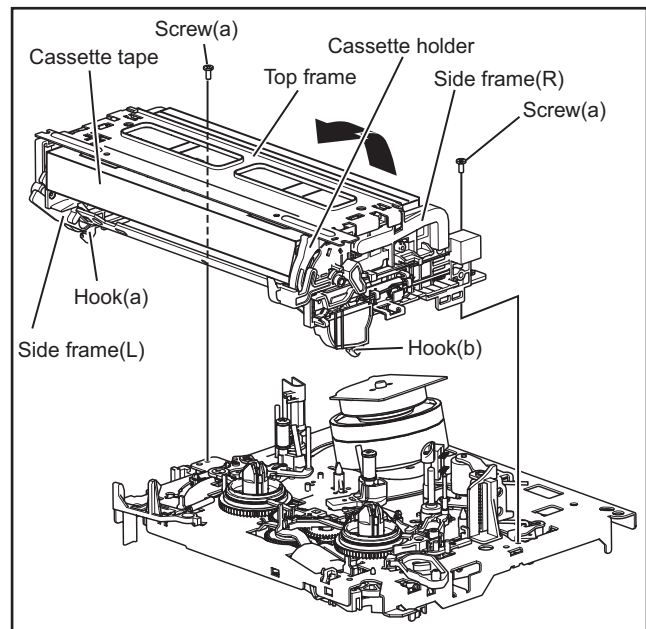


Fig.5-1c

- (6) Take up the slack of the tape into the cassette. This completes removal of the cassette tape.

### 5.2 Manually removing the disk(DVD/CD)

If you cannot remove the disk which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

#### 5.2.1 Method 1

- (1) AC Plug is pulled out at once and inserted again.
- (2) It is displayed on FDP as "LOADING", and while it blinks, pushing the OPEN/CLOSE button is continued.
- (3) After a while, a tray opens (About 20 seconds).
- (4) After removed a disk, press the OPEN/CLOSE button again to close the tray.
- (5) The "LOADING" blink display of FDP disappears and it will be in a standby mode.
- (6) If the POWER button is pushed, it will usually be operating.

#### 5.2.2 Method 2

- (1) Unplug the AC power cord from the AC outlet.
- (2) Remove the top cover and front panel assembly.  
(Refer to the disassembly procedure and perform the disassembly of the major parts before removing)
- (3) Pass a thin wire through a hole in the DVD unit.
- (4) The disc tray comes out slightly. Take out the disc tray manually. (See Fig. 5-2a)

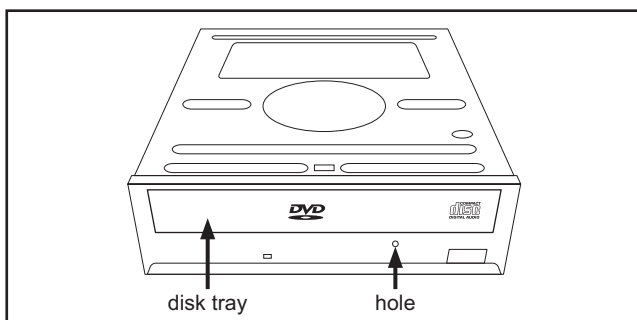


Fig.5-2a

### 5.3 Emergency display function (VHS SECTION)

This unit saves details of the last two emergencies as the EMG history and allows the status of the unit and the mechanism of each emergency to be shown both on the display and as OSD information.

When using the emergency function, it is required to set the unit to the Jig RCU mode.

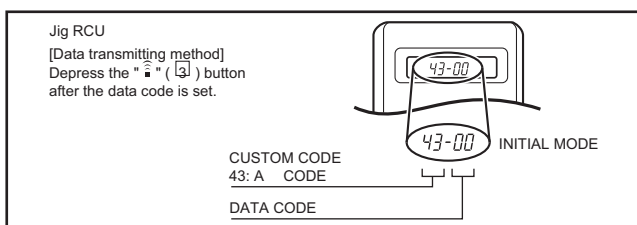


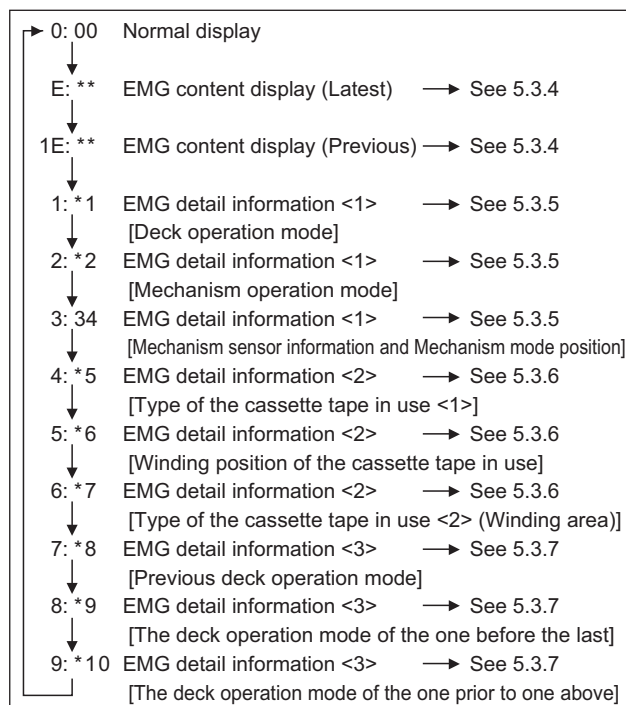
Fig.5-3a Jig RCU [PTU94023B]

#### 5.3.1 Displaying the EMG information

The EMG detail of information can be displayed by transmitting the code "43-59" from the Jig RCU.

##### Note:

- Press VHS/HDD/DVD SELECT button on the unit repeatedly first so that the VHS lamp lights up on the unit.
- The EMG detail information <1><2> show the information on the latest EMG.  
It becomes " - : - : - " when there is no latest EMG record.



EMG display of 7 FDP display model

Fig.5-3b

#### EMG display of FDP display mode

- (1) Transmit the code "43-59" from the Jig RCU.  
The FDP shows the EMG content in the form of "E: \*\*: \*\*".

<Example 1> E : 01  
Latest EMG

<Example 2> E : - - ← No EMG record

- (2) Transmit the code "43-59" from the Jig RCU again.  
The FDP shows the EMG detail information <1> in the form of " \*1 : \*2 : 34 ".  
\*1 : Deck operation mode at the moment of EMG  
\*2 : Mechanism operation mode at the moment of EMG  
3- : Mechanism sensor information at the moment of EMG  
-4 : Mechanism mode position at the moment of EMG
- (3) Transmit the code "43-59" from the Jig RCU once again.  
The FDP shows the EMG detail information <2> in the form of " \*5 : \*6 : \*7 ".  
\*5 : Type of the cassette tape in use <1> .  
\*6 : Winding position of the cassette tape in use  
\*7 : Type of the cassette tape in use <2> (Winding area)
- (4) Transmit the code "43-59" from the Jig RCU once again.  
The FDP shows the EMG detail information <3> in the form of " \*8 : \*9 : \*10 ".  
\*8 : Previous deck operation mode at the moment of EMG  
\*9 : The deck operation mode of the one before the last at the moment of EMG  
\*10: The deck operation mode of the one prior to one above at the moment of EMG
- (5) Transmit the code "43-59" from the Jig RCU once again to reset the display.

#### 5.3.2 Clearing the EMG history

- (1) Display the EMG history.
- (2) Transmit the code "43-36" from the Jig RCU.
- (3) Reset the EMG display.

#### 5.3.3 Details of the OSD display in the EMG display mode

During the EMG display, the OSD shows the data on the deck mode, etc. The details of the display contents are as follows.

##### Notes:

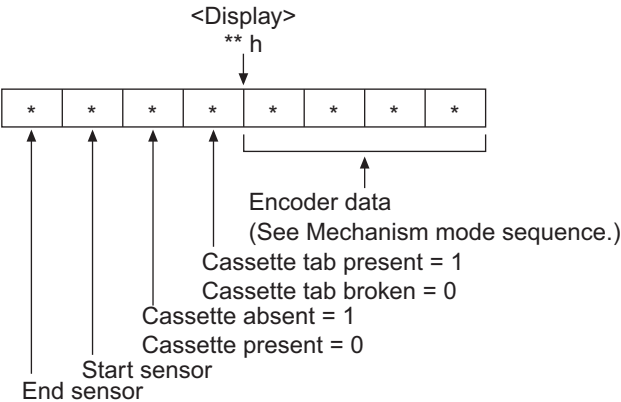
- The display is variable depending on the part No. of the System Control microcomputer (IC3001) built into the VCR. In the following, refer to the figure carrying the same two characters as the top two characters of the part number of your IC.
- The sensor information in the OSD display contents is partially different from the mechanism sensor information in EMG detail information <1>.

[For MN\* only]

|    |    |    |    |    |
|----|----|----|----|----|
| AA | BB | CC | DD | EE |
| FF | GG | HH | II | JJ |
| KK | LL | MM | NN | OO |
| PP | QQ | RR | SS | TT |
| UU | VV | WW | XX | YY |

- AA : Deck operation mode (See EMG detail information <1>.)
- BB : Mechanism operation mode (See EMG detail of information <1>.)
- CC : Mechanism transition flag
- DD : Capstan motor control status
- EE : Loading motor control status
- FF : Sensor information (See sensor information details.)
- GG : Capstan motor speed
- HH : Key code (JVC code)
- II : Supply reel winding diameter data higher 8 bits.
- JJ : Supply reel winding diameter data lower 8 bits.
- KK : Mechanism sensor information & mechanism mode position (See EMG detail of information <1>.)
- LL : Tape speed data higher 8 bits.
- MM : Tape speed data lower 8 bits.
- NN : Cassette tape type <2> higher 8 bits. (See EMG detail of information <2>.)
- OO : Cassette tape type <2> lower 8 bits. (See EMG detail of information <2>.)
- PP : General data display area
- YY : General data display area

**\*FF:Sensor information details**

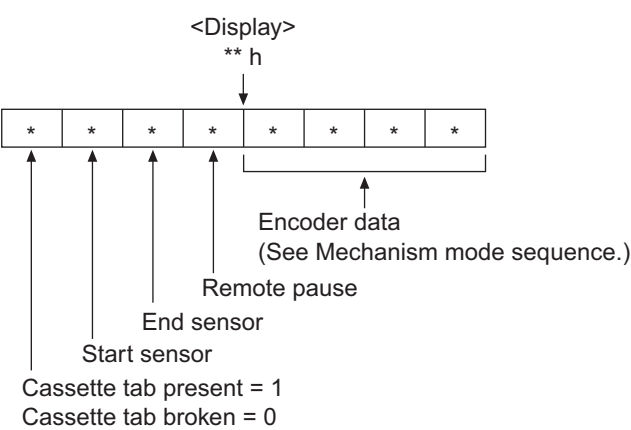


[For \*HD only]

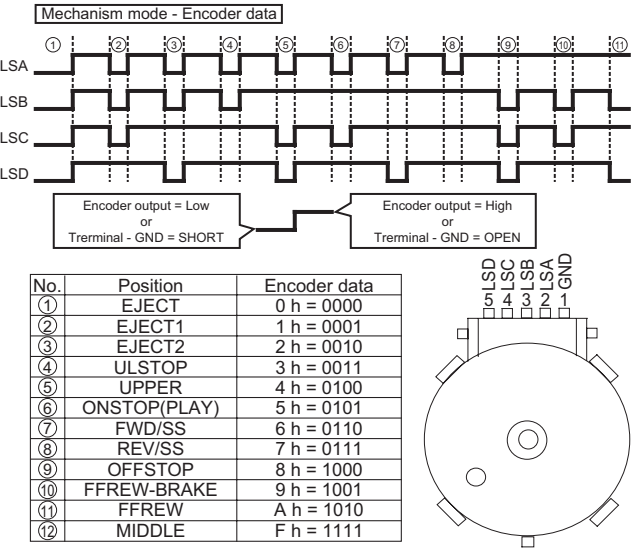
|         |      |      |
|---------|------|------|
| AA      | BB   | CC   |
| DD      | EE   | FF   |
| GGGG    | HHHH |      |
| II      | JJJJ |      |
| KKKK    | LLLL | MMMM |
| ROM No. |      |      |

- AA : Key code (JVC code)
- BB : Deck operation mode (See EMG detail information <1>.)
- CC : Mechanism operation mode (See EMG detail information <1>.)
- DD : Sensor information (See sensor information details.)
- EE : Capstan motor speed (Search, double speed)
- FF : Tracking value
- GGGG : Cassette tape type <2>, 16 bits. (See EMG detail information <2>.)
- HHHH : Supply reel winding diameter data
- II : Capstan motor speed (FF/REW, double speed)
- JJJJ : Tape speed data, lower 8 bits.
- KKKK : General data display area
- LLLL : General data display area
- MMMM : General data display area

**\*DD:Sensor information details**



**[For both MN\*/HD\*]  
Mechanism mode sequence**



### 5.3.4 EMG content description

#### Note:

EMG contents “E09” are for the model with Dynamic Drum (DD).

| FDP                             | CONTENT   | CAUSE   |
|---------------------------------|---|---|
| E01: Loading EMG                | If the mechanism mode does not change to the next mode within 4 seconds after the loading motor starts rotating in the loading direction, while the mechanism is in the after-loading position (with the tape up against the pole base), [E:01] is identified and the power is switched OFF. However, if the tape loading is not completed within 4 seconds after the loading motor starts rotating in the loading direction, the tape is simply unloaded and ejected. No EMG data is recorded in this case.  | <ol style="list-style-type: none"> <li>1. The mechanism is locked in the middle of the mode transition during a tape loading operation.</li> <li>2. The mechanism overruns during the tape loading operation because the SYSCON cannot recognize the mechanism mode normally. This problem is due to a cause such as a rotary encoder failure.</li> <li>3. Power is not supplied to the loading MDA. (M12V/Vcc/Vref/ICP are disconnected in the middle.)</li> </ol>   |
| E02: Unloading EMG              | When the mechanism mode cannot be changed to another mode even when the loading motor has rotated for more than 4 seconds in the unloading direction, [E:02] is identified and the power is turned off.   | <ol style="list-style-type: none"> <li>1. The mechanism is locked in the middle of mode transition.</li> <li>2. Without an eject signal being sent from the SYSCON, unloading is attempted (i.e. Ejection is attempted while the tape is still inside the mechanism.) because the SYSCON cannot recognize the mechanism mode normally. This is due to a cause such as a rotary encoder failure. (Mechanism position: UPPER)</li> <li>3. Power is not supplied to the loading MDA. (M12V/Vcc/Vref/ICP are disconnected in the middle.)</li> </ol>  |
| E03: Take Up Reel Pulse EMG     | When the falling edge of the take-up reel pulse has not been generated for more than 4 seconds in the capstan rotating mode, [E:03] is identified, the pinch rollers are turned off and stopped, and the power is turned off. In this case, however, the mechanism should be in position after tape loading. Note that the reel EMG is not detected during Slow/Frame advance operations.   | <ol style="list-style-type: none"> <li>1. The take-up reel pulse is not generated in the FWD transport modes (PLAY/FWD SEARCH/FF, etc.) because; <ol style="list-style-type: none"> <li>1) The idler gear is not meshed with the take-up reel gear because the mechanism mal-functions for some reason.</li> <li>2) The idler gear is meshed with the take-up reel gear, but incapable of winding due to too large mechanical load (abnormal tension);</li> <li>3) The reel is rotating normally but an FG pulse is not generated due to the take-up reel sensor failure.</li> </ol> </li> <li>2. The supply reel pulse is not generated in the REV transport modes (REV SEARCH/REW, etc.) because; <ol style="list-style-type: none"> <li>1) The idler gear is not meshed with the supply reel gear because the mechanism mal-functions for some reason.</li> <li>2) The idler gear is meshed with the supply reel gear, but incapable of winding due to too large a mechanical load (abnormal tension);</li> <li>3) The reel rotates normally but the FG pulse is not generated due to a supply reel sensor failure.</li> </ol> </li> <li>3. Power (SW5V) is not supplied to the reel sensor on the tape winding side.</li> </ol>   |
| E04: Drum FG EMG                | When the drum FG pulse has not been input for more than 3 seconds in the drum rotating mode, [E:04] is identified, the pinch rollers are turned off and stopped, and the power is turned off.   | <ol style="list-style-type: none"> <li>1. The drum could not start or the drum rotation has stopped due to too large a load on the tape, because; <ol style="list-style-type: none"> <li>1) The tape tension is abnormally high;</li> <li>2) The tape is damaged or a foreign object (grease, etc.) adheres to the tape.</li> </ol> </li> <li>2. The drum FG pulse did not reach the System controller CPU because; <ol style="list-style-type: none"> <li>1) The signal circuit is disconnected in the middle;</li> <li>2) The FG pulse generator (hall device) of the drum is faulty.</li> </ol> </li> <li>3. The drum control voltage (DRUM CTL V) is not supplied to the MDA.</li> <li>4. Power (M12V) is not supplied to the drum MDA.</li> </ol>  |
| E05: Cassette Eject EMG         | If the cassette does not reach the eject position within about 0.7 seconds after the cassette housing has started the cassette ejection operation, [E:05] is identified, the drive direction is reversed to load the tape, the mode is switched to STOP mode with the pinch roller OFF, and the power is switched OFF. During the cassette insertion process, the drive direction is reversed and the cassette is ejected if the tape is not up against the pole base within about 3 seconds after the start of the cassette pulling-in operation. If the cassette does not reach the eject position within about 0.7 seconds after the drive mode reversal operation, [E:05] is identified and the power is switched OFF immediately.  | <ol style="list-style-type: none"> <li>1. The cassette cannot be ejected due to a failure in the drive mechanism of the housing.</li> <li>2. When the housing load increases during ejection, the loading motor is stopped because of lack of headroom in its drive torque. <ul style="list-style-type: none"> <li>Housing load increasing factors: Temperature environment (low temperature, etc.), mechanism wear or failure.</li> </ul> </li> <li>3. The sensor/switch for detecting the end of ejection are not functioning normally.</li> <li>4. The loading motor drive voltage is lower than specified or power (M12V) is not supplied to the motor (MDA).</li> <li>5. When the user attempted to eject a cassette, a foreign object (or perhaps the user's hand) was caught in the opening of the housing.</li> </ol>   |
| E06: Capstan FG EMG             | When the capstan FG pulse has not been generated for more than 1 second in the capstan rotating mode, [E:06] is identified, the pinch rollers are turned off and stopped, and the power is turned off. However, the capstan EMG is not detected in SLOW/ STILL modes. Note that, if the part number of the System Control IC begins with "MN" or "M3", the capstan EMG is not detected even during the FF/REW operation.  | <ol style="list-style-type: none"> <li>1. The capstan could not start or the capstan rotation has stopped due to too large a load on the tape, because; <ol style="list-style-type: none"> <li>1) The tape tension is abnormally high (mechanical lock);</li> <li>2) The tape is damaged or a foreign object (grease, etc.) is adhered to the tape (occurrence of tape entangling, etc.).</li> </ol> </li> <li>2. The capstan FG pulse did not reach the System controller CPU because; <ol style="list-style-type: none"> <li>1) The signal circuit is disconnected in the middle;</li> <li>2) The FG pulse generator (MR device) of the capstans is faulty.</li> </ol> </li> <li>3. The capstan control voltage (CAPSTAN CTL V) is not supplied to the MDA.</li> <li>4. Power (M12V, SW5V) are not supplied to the capstan MDA.</li> </ol>  |
| E07: SW Power Short-Circuit EMG | When short-circuiting of the SW power supply with GND has lasted for 0.5 second or more, [E:07] is identified, all the motors are stopped and the power is turned off.  | <ol style="list-style-type: none"> <li>1. The SW 5 V power supply circuit is shorted with GND.</li> <li>2. The SW 12 V power supply circuit is shorted with GND.</li> </ol>   |
| E08: DVD EMG                    | When communication with a system computer of VHS side is not carried out because of the defective DVD unit, or when the DVD unit must be reset  | <ol style="list-style-type: none"> <li>1. The DVD unit is defective.</li> <li>2. Contact failure of the wires in the DVD unit or VHS side.</li> </ol>   |
| E09: DD FG EMG                  | When the DD FG pulse is not generated within 2.5 seconds, [E:09] is identified, the tilt motor is stopped and the power is turned off.  | <ol style="list-style-type: none"> <li>1. The FG sensor is defective. (The soldered parts have separated.)</li> <li>2. The pull-up resistor at the FG sensor output is defective. (The soldered parts have separated.)</li> <li>3. Contact failure or soldering failure of the pins of the connector (board-to-board) to the FG sensor.</li> <li>4. The power (5V) to the sensor is not supplied. (Connection failure/soldering failure)</li> <li>5. The FG pulse is not sent to the System Controller CPU.</li> <li>6. The tilt motor is defective. (The soldered parts have separated.)</li> <li>7. The drive power to the tilt motor is not supplied. (Connection failure/soldering failure)</li> <li>8. The tilt motor drive MDA - IC is defective.</li> <li>9. Auto-recovery of the DD tilting cannot take place due to overrun.</li> </ol>  |
| E0A: Supply Reel Pulse EMG      | When the falling edge of the supply reel pulse has not been generated for more than 10 seconds in the capstan rotating mode, [E:0A] is identified and the cassette is ejected (but the power is not turned off). In this case, however, the mechanism should be in the position after tape loading (with the tape up against the pole base). Also note that the reel EMG is not detected during Slow/ Frame advance operations.   | <ol style="list-style-type: none"> <li>1. The supply reel pulse is not generated in the FWD transport mode (PLAY/FWD SEARCH/FF, etc.) because; <ol style="list-style-type: none"> <li>1) PLAY/FWD or SEARCH/FF is started while the tape in the inserted cassette is cut in the middle;</li> <li>2) A mechanical factor caused tape slack inside and outside the supply reel side of the cassette shell. In this case, the supply reel will not rotate until the tape slack is removed by the FWD transport, so the pulse is not generated until then;</li> <li>3) The reel is rotating normally but the FG pulse is not generated due to a supply reel sensor failure.</li> </ol> </li> <li>2. The take-up reel pulse is not generated in the REV transport mode (REV SEARCH/REW, etc.). <ol style="list-style-type: none"> <li>1) REV SEARCH/REW is started when the tape in the inserted cassette has been cut in the middle;</li> <li>2) A mechanical factor caused tape slack inside and outside the take-up reel side of the cassette shell. In this case, the take up will not rotate until the tape slack is removed by the REV transport, so the pulse will not be generated until that time;</li> <li>3) The reel is rotating normally but the FG pulse is not generated due to a take-up reel sensor failure.</li> </ol> </li> <li>3. The power (SW 5V) to a reel sensor is not supplied.</li> </ol> |
| EU1: Head clog warning history  | Presupposing the presence of the control pulse output in the PLAY mode, when the value obtained by mixing the two V.FM output channels (without regard to the A.FM output) has remained below a certain threshold level for more than 10 seconds, [E:U1] is identified and recorded in the emergency history. During the period in which the head clog is detected, the FDP shows "U:01" and the OSD repeats the "3 seconds of warning display" and the "7 seconds of noise picture display" alternately.<br>EMG code : "E:C1" or "E:U1" / FDP : "U:01" / OSD : "Try cleaning tape." or "Use cleaning cassette."<br>The head clog warning is reset when the above-mentioned threshold has been exceeded for more than 2 seconds or the mode is changed to another mode than PLAY. |   |

### 5.3.5 EMG detail information <1>

The status (electrical operation mode) of the VCR and the status (mechanism operation mode/sensor information) of the mechanism in the latest EMG can be confirmed based on the figure in EMG detail information <1> .

[FDP/OSD display] \*1 : \*2 : 34

- \*1 : Deck operation mode at the moment of EMG
- \*2 : Mechanism operation mode at the moment of EMG
- 3- : Mechanism sensor information at the moment of EMG
- 4 : Mechanism mode position at the moment of EMG

#### Note:

- For EMG detailed information <1>, the content of the code that is shown on the display (or OSD) differs depending on the parts number of the system control microprocessor (IC3001) of the VCR. The system control microprocessor parts number starts with two letters, refer these to the corresponding table.

#### \*1 : Deck operation mode

[Common table of MN\* and HD]

| Display |     | Deck operation mode  |
|---------|-----|--|
| MN*     | HD* |  |
| 00      | -   | Mechanism being initialized  |
| 01      | 00  | STOP with pinch roller pressure off (or tape present with P.OFF)         |
| 02      | 01  | STOP with pinch roller pressure on                                       |
| 03      | -   | POWER OFF as a result of EMG   |
| 04      | 04  | PLAY (Normal playback)   |
| 0C      | 0E  | REC  |
| 10      | 11  | Cassette ejected   |
| 20      | 22  | FF   |
| 21      | -   | Tape fully loaded, START sensor ON, short FF                             |
| 22      | -   | Cassette identification FWD SEARCH before transition to FF (SPx7-speed)  |
| 24      | 26  | FWD SEARCH (variable speed) including x2-speed                           |
| 2C      | 2E  | INSERT REC   |
| 40      | 43  | REW  |
| 42      | -   | Cassette identification REV SEARCH before transition to REW (SPx7-speed) |
| 44      | 47  | REV SEARCH (variable speed)  |
| 4C      | 4C  | AUDIO DUB  |
| 6C      | 6E  | INSERT REC (VIDEO + AUDIO)   |
| 84      | 84  | FWD STILL / SLOW   |
| 85      | 85  | REV STILL / SLOW   |
| 8C      | 8F  | REC PAUSE  |
| 8D      | -   | Back spacing   |
| 8E      | -   | Forward spacing (FWD transport mode with BEST function)                  |
| AC      | AF  | INSERT REC PAUSE   |
| AD      | -   | INSERT REC back spacing  |
| CC      | CD  | AUDIO DUB PAUSE  |
| CD      | -   | AUDIO DUB back spacing   |
| EC      | EF  | INSERT REC (VIDEO + AUDIO) PAUSE   |
| ED      | -   | INSERT REC (VIDEO + AUDIO) back spacing                                  |

#### \*2 : Mechanism operation mode

[Table of MN\*]

| Display | Mechanism operation mode  |
|---------|---|
| 00      | Command standby (No command to be executed)                           |
| 01      | Immediate Power OFF after EMG occurrence                              |
| 02      | Loading from an intermediate position during mechanism initialization |
| 03      | Unloading due to EMG occurrence during mechanism initialization       |
| 04      | Ejecting cassette (ULSTOP to EJECT)                                   |
| 05      | Inserting cassette (EJECT to ULSTOP)                                  |
| 06      | Loading tape (ULSTOP to PLAY)   |
| 07      | Unloading tape (PLAY to ULSTOP)                                       |
| 08      | Transition from pinch roller ON to STOP                               |
| 09      | Transition from pinch roller OFF to STOP (PLAY to OFFSTOP)            |
| 0A      | Transition from pinch roller OFF to STOP at power OFF                 |
| 0B      | Transition from pinch roller ON to STOP at power ON                   |
| 0C      | Transition to PLAY  |
| 0D      | Transition to Search FF   |
| 0E      | Transition to REC   |
| 0F      | Transition to FWD STILL/SLOW  |
| 10      | Transition to REV STILL/SLOW  |
| 11      | Transition to Search REV  |
| 12      | Transition from FF/REW to STOP  |
| 13      | Transition to FF  |
| 14      | Transition to REW   |
| 15      | Tape end detection processing during loading                          |
| 16      | Short FWD/REV at tape sensor ON during unloading                      |
| 17      | Transition to FF/REW brake mode                                       |

[Table of HD\*]

| Display | Mechanism operation mode  |
|---------|---|
| 00      | STOP with pinch roller pressure off   |
| 01      | STOP with pinch roller pressure on  |
| 02      | U/L STOP (or tape being loaded)   |
| 04      | PLAY (Normal playback)  |
| 05      | PLAY (x1-speed playback using JOG)  |
| 0E      | REC   |
| 11      | Cassette ejected  |
| 22      | FF  |
| 26      | FWD SEARCH (variable speed) including x2-speed  |
| 2E      | INSERT REC  |
| 43      | REW   |
| 47      | REV SEARCH  |
| 4C      | AUDIO DUB   |
| 6E      | INSERT REC (VIDEO + AUDIO)  |
| 84      | FWD STILL/SLOW  |
| 85      | REV STILL/SLOW  |
| 8F      | REC PAUSE   |
| AF      | INSERT REC PAUSE  |
| C7      | REV SEARCH (x1-speed reverse playback using JOG)  |
| CD      | AUDIO DUB PAUSE   |
| EF      | INSERT REC (VIDEO + AUDIO) PAUSE  |
| F0      | Mechanism being initialized   |
| F1      | POWER OFF as a result of EMG  |
| F2      | Cassette being inserted   |
| F3      | Cassette being ejected  |
| F4      | Transition from STOP with pinch roller pressure on to STOP with pinch roller pressure off |
| F5      | Transition from STOP with pinch roller pressure on to PLAY                                |
| F6      | Transition from STOP with pinch roller pressure on to REC                                 |
| F7      | Cassette type detection SEARCH before FF/REW is being executed                            |
| F8      | Tape being unloaded   |
| F9      | Transition from STOP with pinch roller pressure off to STOP with pinch roller pressure on |
| FA      | Transition from STOP with pinch roller pressure off to FF/REW                             |
| FB      | Transition from STOP with pinch roller pressure off to REC.P (T.REC,etc.)                 |
| FC      | Transition from STOP with pinch roller pressure off to cassette type detection SEARCH     |
| FD      | Short REV being executed after END sensor on during unloading                             |
| FE      | Tension loosening being executed after tape loading (STOP with pinch roller pressure on)  |
| FF      | Tape being unloaded   |

### 3- : Mechanism sensor information

[Common table of MN\* and HD\*]

| Display | Mechanism sensor information |              |            |                           |
|---------|------------------------------|--------------|------------|---------------------------|
|         | REC safety SW                | Start sensor | End sensor | Mechanism position sensor |
| 0-      | Tab broken                   | ON           | ON         | ON                        |
| 1-      | Tab broken                   | ON           | ON         | OFF                       |
| 2-      | Tab broken                   | ON           | OFF        | ON                        |
| 3-      | Tab broken                   | ON           | OFF        | OFF                       |
| 4-      | Tab present                  | OFF          | ON         | ON                        |
| 5-      | Tab present                  | OFF          | ON         | OFF                       |
| 6-      | Tab present                  | OFF          | OFF        | ON                        |
| 7-      | Tab present                  | OFF          | OFF        | OFF                       |
| 8-      | Tab broken                   | ON           | ON         | ON                        |
| 9-      | Tab broken                   | ON           | ON         | OFF                       |
| A-      | Tab broken                   | ON           | OFF        | ON                        |
| B-      | Tab broken                   | ON           | OFF        | OFF                       |
| C-      | Tab present                  | OFF          | ON         | ON                        |
| D-      | Tab present                  | OFF          | ON         | OFF                       |
| E-      | Tab present                  | OFF          | OFF        | ON                        |
| F-      | Tab present                  | OFF          | OFF        | OFF                       |

Tab broken = 0

Tab present = 1

Sensor ON = 0

Sensor OFF = 1

Sensor ON = 0

Sensor OFF = 1

### 4 : Mechanism mode position

[Common table of MN\* and HD\*]

| Mechanism sensor information            | Display | Deck operation mode |                               |
|---|---------|---------------------|-------------------------------|
| Even number<br>(0, 2, 4, 6, 8, A, C, E) | -0      | Not established     |                               |
|   | -1      | EJECT               | EJECT position                |
|   | -2      | EJECT-EJECT1        | Intermodal position           |
|   | -3      | EJECT1              | EJECT1 position               |
|   | -4      | EJECT1-EJECT2       | Intermodal position           |
|   | -5      | EJECT2              | EJECT2 position               |
|   | -6      | EJECT2-ULSTOP       | Intermodal position           |
|   | -7      | ULSTOP              | ULSTOP position               |
|   | -8      | ULSTOP-UPPER        | Intermodal position           |
|   | -9      | UPPER               | Loading (unloading) tape      |
|   | -A      | UPPER-ONSTOP        | Intermodal position           |
|   | -B      | ONSTOP              | PLAY position                 |
|   | -C      | PLAY-FWD/SS         | Intermodal position           |
|   | -D      | FWD/SS              | FWD (FWD Still/Slow) position |
|   | -E      | FWD/SS-REV          | Intermodal position           |
|   | -F      | REV                 | REV (REV Still/Slow) position |
| Odd number<br>(1, 3, 5, 7, 9, B, D, F)  | -0      | REV-OFFSTOP         | Intermodal position           |
|   | -1      | OFFSTOP             | Pinch roller OFF position     |
|   | -2      | OFFSTOP-FFREWB      | Intermodal position           |
|   | -3      | FFREWB              | FF/REW Brake position         |
|   | -4      | FFREWB-FFREW        | Intermodal position           |
|   | -5      | FFREW               | FF/REW position               |

#### 5.3.6 EMG detail information <2>

The type of the cassette tape and the cassette tape winding position can be confirmed based on the figure in EMG detail information <2> .

**Note:**

- EMG detail information <2> is the reference information stored using the remaining tape detection function of the cassette tape. As a result, it may not identify cassette correctly when a special cassette tape is used or when the tape has variable thickness.

### \*5 : Cassette tape type <1>

| Display | Cassette tape type <1>  |
|---------|---|
| 00      | Cassette type not identified  |
| 16      | Large reel/small reel (T-0 to T-15/T-130 to T-210) not classified               |
| 82      | Small reel, thick tape (T-120) identified/thin tape (T-140) identified          |
| 84      | Large reel (T-0 to T-60) identified   |
| 92      | Small reel, thick tape (T-130) identified/thin tape (T-160 to T-210) identified |
| 93      | Small reel, thick tape/C cassette (T-0 to T-100/C cassette) not classified      |
| C3      | Small reel, thick tape/C cassette (T-0 to T-100/C cassette) being classified    |
| D3      | Small reel, thick tape/C cassette (T-0 to T-100/C cassette) being classified    |
| E1      | C cassette, thick tape (TC-10 to TC-20) identified                              |
| E2      | Small reel, thick tape (T-0 to T-100) identified                                |
| E9      | C cassette, thin tape (TC-30 to TC-40) identified                               |
| F1      | C cassette, thick tape/thin tape (TC-10 to TC-40) not classified                |

**Notes:**

- Cassette tape type <1> is identified a few times during mode transition and the identification count is variable depending on the cassette tape type. If an EMG occurs in the middle of identification, the cassette tape type may not be able to be identified.
- If other value than those listed in the above table is displayed, the cassette tape type is not identified.

### \*6 : Cassette tape winding position

The cassette tape winding position at the moment of EMG is displayed by dividing the entire tape (from the beginning to the end) in 21 sections using a hex number from "00" to "14".

00 : End of winding

14 : Beginning of winding

FF : Tape position not identified

### \*7 : Cassette tape type <2> (Winding area)

| Display | Cassette tape type <2>                | (Reference) Word data<br>(Beginning) (End) |
|---------|---------------------------------------|--|
| 00      | Cassette type not identified          |  |
| 04 - 08 | C cassette, thick tape TC-10          | (0497 - 0506) (0732 - 0858)                |
| 05 - 06 | Small reel, thick tape T-20           | (05A9 - 0661)                              |
| 05 - 0C | C cassette, thick tape TC-20P         | (0599 - 05FF) (0AA1 - 0C07)                |
| 06 - 0C | C cassette, thin tape TC-40           | (0623 - 063D) (0C41 - 0CC3)                |
| 06 - 0C | C cassette, thin tape TC-30           | (0611 - 0638) (0C0C - 0CB2)                |
| 07 - 08 | Small reel, thick tape T-40           | (07CC - 08E5)                              |
| 09 - 0B | Small reel, thick tape T-60           | (09FD - 0B78)                              |
| 0C - 0D | Small reel, thick tape T-80 (DF-160)  | (0C20 - 0DFC)                              |
| 0D - 0F | Small reel, thick tape T-90 (DF-180)  | (0D31 - 0F3E)                              |
| 0E - 10 | Small reel, thick tape T-100          | (0E43 - 107F)                              |
| 10 - 12 | Small reel, thin tape T-140           | (10E1 - 120C)                              |
| 10 - 13 | Small reel, thick tape T-120 (DF-240) | (1073 - 1313)                              |
| 11 - 14 | Small reel, thick tape T-130          | (1185 - 1429)                              |
| 12 - 14 | Small reel, thin tape T-160           | (12D3 - 141F)                              |
| 13 - 14 | Small reel, thin tape T-210 (DF-420)  | (1373 - 14C3)                              |
| 13 - 14 | Small reel, thin tape T-180 (DF-360)  | (1357 - 14C0)                              |
| 13 - 14 | Small reel, thin tape T-168           | (1395 - 14EE)                              |
| 13 - 14 | Small reel, thick tape DF-300         | (13A8 - 14CE)                              |
| 15 - 16 | Large reel T-20                       | (1536 - 1618)                              |
| 16 - 17 | Large reel T-30                       | (1647 - 175A)                              |
| 17 - 18 | Large reel T-40                       | (1759 - 189C)                              |
| 19 - 1B | Large reel T-60                       | (1989 - 1B2F)                              |

**Note:**

- The values of cassette tape type <2> in the above table are typical values with representative cassette tapes.

#### 5.3.7 EMG detail information <3>

Three deck operation modes preceding the deck operation mode in which the EMG occurs may be confirmed based on the figures in the EMG information detail <3>. For the contents of the displayed information, see the table "Deck operation mode" in section "5.3.5 EMG detail information <1>".

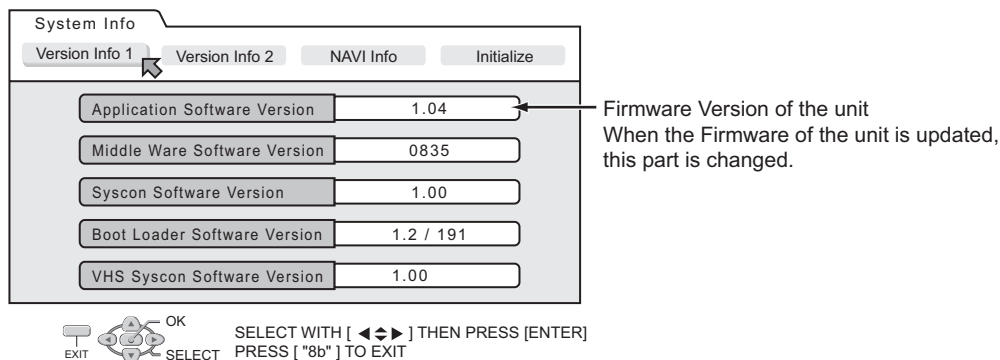
## 5.4 Display function of DVD section

### 5.4.1 Displaying SYSTEM INFO

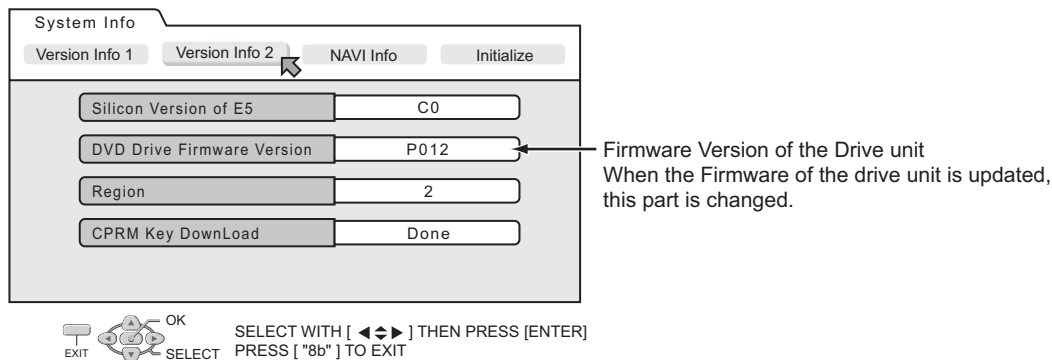
SYSTEM INFO contains information on firmware version of the unit and the mechanism drive, and an initialize execution menu.

- (1) Set the unit to the Jig RCU mode.
- (2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the HDD lamp lights up on the unit.
- (3) Transmit "43-8b" from the Jig RCU.
- (4) SYSTEM INFORMATION menu is displayed in the screen.
- (5) To move cursor in SYSTEM INFO, use the "▲", "▼", "◀", and "▶" buttons of a remote control unit attached to product.
- (6) To quit the SYSTEM INFO menu, transmit "43-8b" from the Jig RCU..
- (7) Cancel Jig RCU mode.

#### The example of a display < Version Info 1 >



#### The example of a display < Version Info 2 >



#### NOTE:

Items other than the ones described above are not used in service work.

#### 5.4.2 Updating the firmware of the unit

- Firmware update disc supports CD-R media.
- When firmware update is necessary, information is available from the homepage of DIGITAL VIDEO STORAGE CATEGORY, CS group.

##### 5.4.2.1 Creating an update disc

Please check the details of the update disc creation method by JS-NET.

- (1) Download the update file from JS-NET.
  - (2) Write the update file into CD-R. Pay attention in the following points when writing the update disc.
- Make sure to write in "Disc at Once".
  - Set the file compatibility to "ISO9660 format". (ROMEO, JOLIET are disapproved.)
- If the writing method is not correct, the update results in an error.

##### 5.4.2.2 Update procedure

- There are two methods of updating firmware, using JIG RCU mode <method 1> or not using JIG mode(User update mode) <method 2>.

Updating can be operated in either method.

##### <Method 1>

- (1) Set to the Jig RCU mode.
- (2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
- (3) Load the update disc on the tray, and then close the tray.
- (4) When the disc reading operation is completed, transmit "43-70" with the Jig remote control unit.  
If the update disc is not correct, FDP indicator displays an "ERROR" after transmitting "43-70". Transmit "43-70" once and make the FDP indicator to normal display, and then reload the disc then transmit "43-70" again.
- (5) "UPDATE" is displayed in the FDP indicator, and the FDP indicator changes to "FL UPDATE" afterwards. It takes approx. 2 minutes for the change.
- (6) Remove the disc as the tray is ejected, and then transmit "43-70" with the Jig remote control unit. Then the FDP indicator changes from "UPDATE" to the normal display.
- (7) Close the tray and turn the unit OFF. Pull out the power cord from the wall socket, then plug the power cord into the wall socket again.
- (8) When "LOADING" in the FDP indicator disappears, turn the unit ON.
- (9) Display the SYSTEM INFO menu, and check the version of the firmware.
- (10) Cancel the Jig RCU mode.

##### <Method 2>

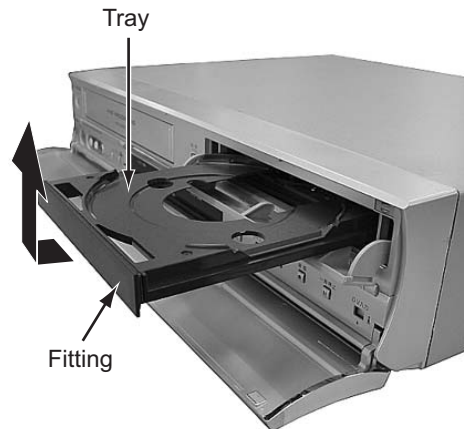
- (1) Turn the power ON. Load the update disc on the tray and close the tray.
- (2) When the disc reading operation is completed, turn the power OFF.
- (3) Keep pressing the "PAUSE" button and the "POWER" button at the same time. (Until FDP indicator changes to "UPDATE").
- (4) In approx. 2 minutes the tray is ejected. Remove the disc and close the tray.
- (5) Reset operation is carried out automatically, and it becomes standby condition.
- (6) Then, display the SYSTEM INFO menu in the Jig RCU mode and check the version.

#### 5.4.3 Updating the firmware of the drive unit

- Firmware update disc supports only DVD-RAM media.
  - When firmware update is necessary, written discs are distributed by DIGITAL VIDEO STORAGE CATEGORY, CS group.
- (1) Turn the unit ON.
  - (2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
  - (3) Load the update DVD-RAM disc on the tray and close the tray.
  - (4) "READING" is displayed in the FDP indicator and the update is started.
  - (5) In a short while "READING" in the FDP indicator disappears, open the tray to remove the disc and close the tray.
  - (6) Turn the power OFF and pull out the power cord from the wall socket, then plug the power cord into the wall socket again.
  - (7) Set to the Jig RCU mode and check the firmware version of the drive.

#### 5.4.4 Exchanging the fitting

As the fitting that comes with the service drive unit cannot be used, make sure to attach a service fitting when the drive unit is exchanged. The fitting that is removed from the old drive unit can be attached to the new drive unit. The fitting can be removed by pulling upwards while opening out the lower part of the fitting outwards.



#### 5.4.5 Initialization to the factory shipment state

When the initialization is operated, internal information changes as follows. It is essential to obtain the client's permission before the operation.

- All DVD library is all deleted.
- All the DVD initial settings go back to the initial status.
  - (1) Set to the Jig RCU mode.
  - (2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
  - (3) Transmit "43-6F" with the Jig remote control unit.
  - (4) FDP indicator displays "FACTORY", and changes to "CHECK OK" after blinking for a short while.
  - (5) Pull out the power code from the wall socket.
  - (6) The Jig RCU mode is forced to cancel at the same time with the initialization, check whether the Jig RCU mode is canceled by plugging the power code into the wall socket again. (The colon ":" in time display should be continuously ON, not blinking.)  
If the Jig RCU mode is not canceled, transmit "43-9D" with Jig remote control unit to cancel the Jig RCU mode.

#### 5.4.6 Setting after the drive unit replacement

When the drive unit is replaced, it is necessary to set a region code. Service drive units for replacement are not set for any region code, and they are in an indefinite condition.

Make sure to set region code after attaching the drive unit to the unit.

**Without the setting of the region code, discs that have regions cannot be played back.**

##### 5.4.6.1 Creating a region setting disc.

Please check the details of the region setting disc creation method by JS-NET.

- (1) Download the region setting file from JS-NET.
- (2) Write the region setting file into CD-R. Pay attention in the following points when writing the file into CD-R.
  - Make sure to write in "Disc at Once".
  - Set the file compatibility to "ISO9660 format". (ROMEO, JOLIET are disapproved).If the writing method is not correct, the normal setting cannot be performed.

##### 5.4.6.2 Setting the region

- (1) Set for the Jig RCU mode.
- (2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
- (3) Load the region setting disc on the tray, and then close the tray.
- (4) When the disc reading operation is completed, transmit "43-70" with the Jig remote control unit.
- (5) FDP indicator changes to "UPDATE". Remove the disc as the tray will open for a few seconds.
- (6) Then, check whether the FDP indicator is "REGION 1".
- (7) Transmit "43-70" with the Jig remote control unit. When FDP indicator changes to "OPEN", close the tray.
- (8) Turn the power OFF, and pull out the power code, and then plug the power code in again.
- (9) Cancel the Jig RCU mode.

#### **5.4.7 Booting the system using the CD**

The firmware of this device is stored in the Hard Disk Drive (HDD). If the firmware is collapsed for its contents, [LOADING] is repeatedly displayed on the FDP display of the main unit and the system becomes inoperative. The system operation cannot be resumed even if the AC plug is disconnected from the AC power source.

In such a situation, the operation may be resumed on a temporary basis to normal using a CD that stores the firmware. This causes the firmware in the HDD to be updated and the system may be brought to a normal operation. Refer to the following descriptions for detail.

##### **5.4.7.1 Downloading the firmware from JS-NET to create a booting disk**

**NOTE:**

**For details of creating the booting disk, see the instructions provided in the JS-NET web site.**

- (1) Download all the relevant files from the JS-NET and decompress it.
- (2) The file termed "bootup1.blx" will accordingly be created. Copy this file in a root directory of the CD-R.
- (3) Set the track setting to [MODE2 XA] for writing the software, and select [JOLIET] as an exchangeable file name. Be sure to write the disk in [Disk at once] mode.

##### **5.4.7.2 Booting using the Disk**

The following explanation is made assuming the system operation is being unable with [LOADING] repeatedly displayed.

- (1) Disconnect the AC plug and then connect it again. Immediately after this, press and hold the DVD ON/OFF button until the tray comes out.
- (2) Put the booting disk on the tray and close the tray.
- (3) Disconnect the AC plug. Press and hold the STOP button and connect the AC plug.
- (4) Keep the button pressed for 20 seconds and release the button (Timing must be precise).
- (5) [LOADING] will be displayed repeatedly for a while and the system will be brought to the standby state.
- (6) Press the OPEN/CLOSE button to remove the booting disk.
- (7) Turn the system on and confirm that the operation is normal. If so, the system should be properly booted from the CD-R.

##### **5.4.7.3 Updating the firmware after booting with the CD**

By updating the firmware using the CD, the built-in firmware in the HDD will be overwritten, allowing the firmware to be renovated. The system may be resumed to a normal state using this method. Be sure to download the latest version of the update firmware when you attempt to create and use the firmware. For the updating procedures, refer to 5.6.



Victor Company of Japan, Limited  
AV & MULTIMEDIA COMPANY DIGITAL VIDEO STORAGE CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YD048)



Printed in Japan  
VPT

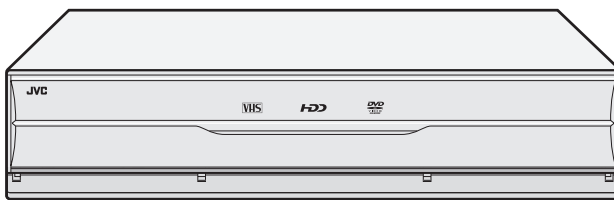
# JVC

## SCHEMATIC DIAGRAMS

DVD / HDD VIDEO RECORDER & VIDEO CASSETTE RECORDER

### DR-MX1SEF, DR-MX1SEK, DR-MX1SEU, DR-MX1SEY, DR-MX1SEZ

CD-ROM No.SML200501



DR-MX1SEF, DR-MX1SEK, DR-MX1SEU, DR-MX1SEY, DR-MX1SEZ [D4VC21]


For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).





CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

**Safety precautions**  
The Components identified by the symbol  are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

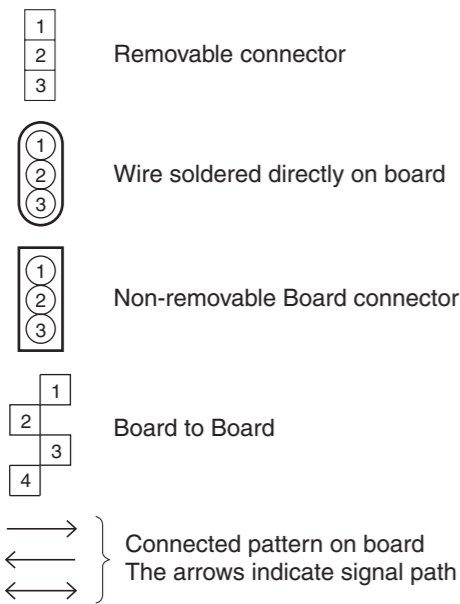
- Unless otherwise specified.
- 1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).  
Chip resistors are 1/16 W.  
K: KΩ(1000Ω), M: MΩ (1000KΩ)
  - 2) All capacitance values are in μF, (P: PF).
  - 3) All inductance values are in μH, (m: mH).
  - 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

**Note:** The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

- AUX : Active at high.
- $\overline{\text{AUX}}$  or AUX(L) : Active at low.

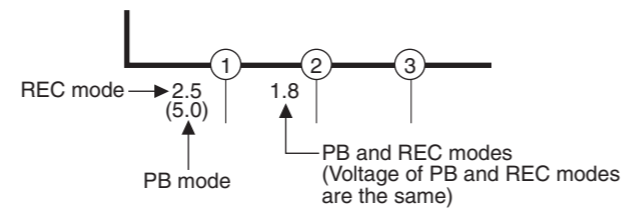
3. Interpreting Connector indications



**Note:** For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

- 1) Regulator (DC/DC CONV) circuits  
REC : Colour bar signal.  
PB : Alignment tape (Colour bar).  
— : Unmeasurable or unnecessary to measure.
- 2) Indication on schematic diagram  
Voltage indications for REC and PB mode on the schematic diagram are as shown below.

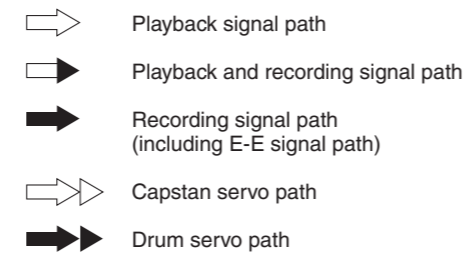


**Note:** If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

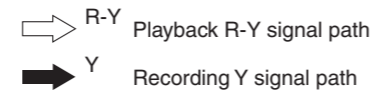
5. Signal path Symbols

The arrows indicate the signal path as follows.

**NOTE :** The arrow is DVC unique object.



(Example)



6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



CIRCUIT BOARD NOTES

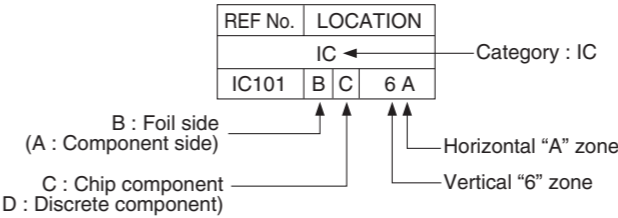
1. Foil and Component sides

- 1) Foil side (B side) :  
Parts on the foil side seen from foil face (pattern face) are indicated.
- 2) Component side (A side) :  
Parts on the component side seen from component face (parts face) indicated.

Parts location are indicated by guide scale on the circuit board.

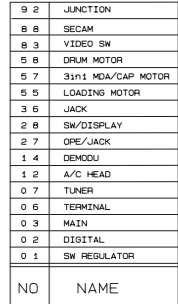
2. Parts location guides

Parts location are indicated by guide scale on the circuit board.



**Note:** For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

## ■ BOARD INTERCONNECTIONS



| #  | OPTION   |
|----|--|
|    | <div> <div>08</div> <div>SECAM</div> </div> <div> <div>03</div> <div>CN7119</div> </div> <div> <div>03</div> <div>CN504</div> </div> |
| EU | X  |
| EK | X  |
| EF | O  |

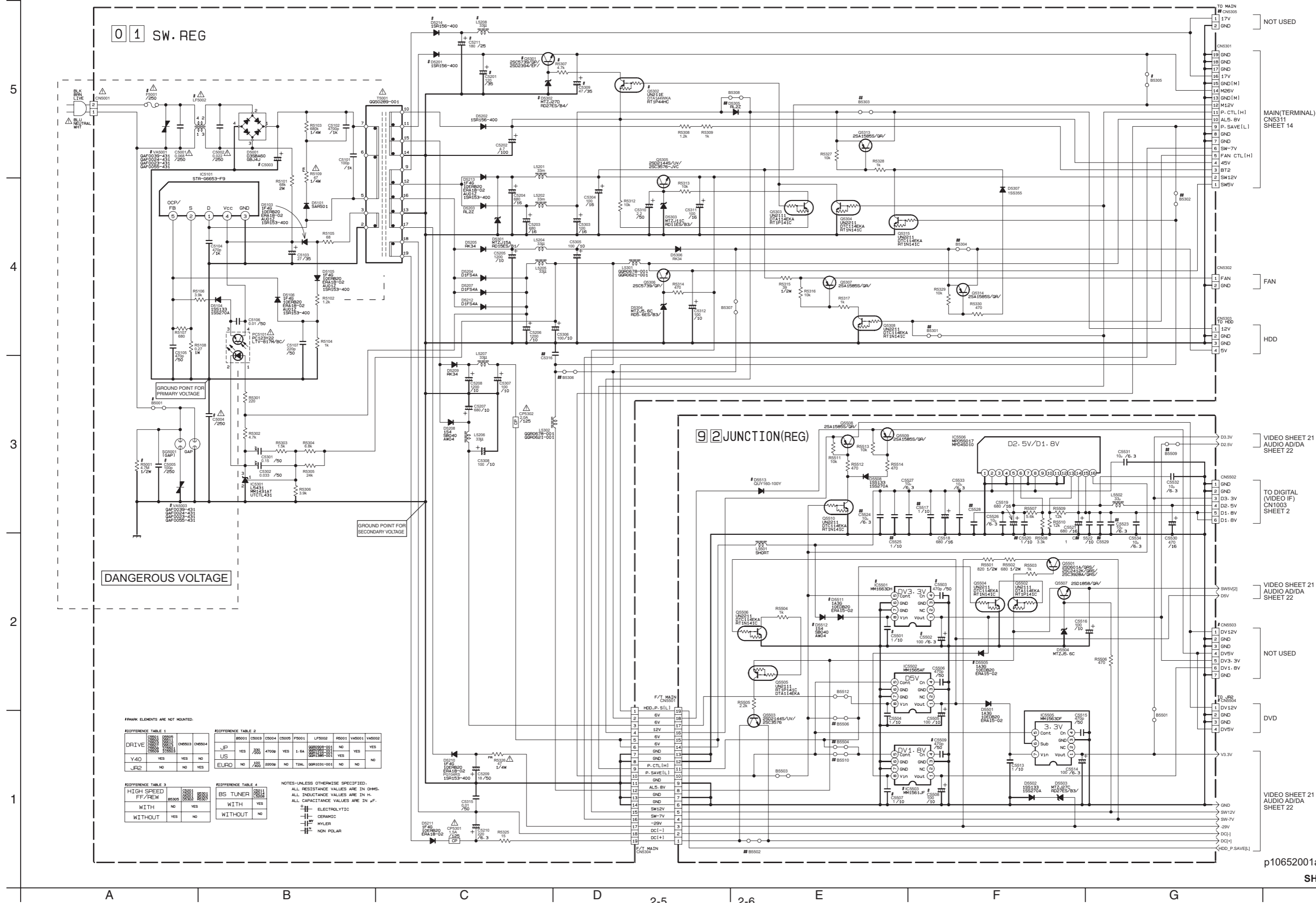
#:CN3401 and CN3901 are used only for FLASH CPU.

REG Page 2-6 Sheet 1  
VIDEO Page 2-45 Sheet 21  
AUDIO AD/DA Page 2-47 Sheet 22

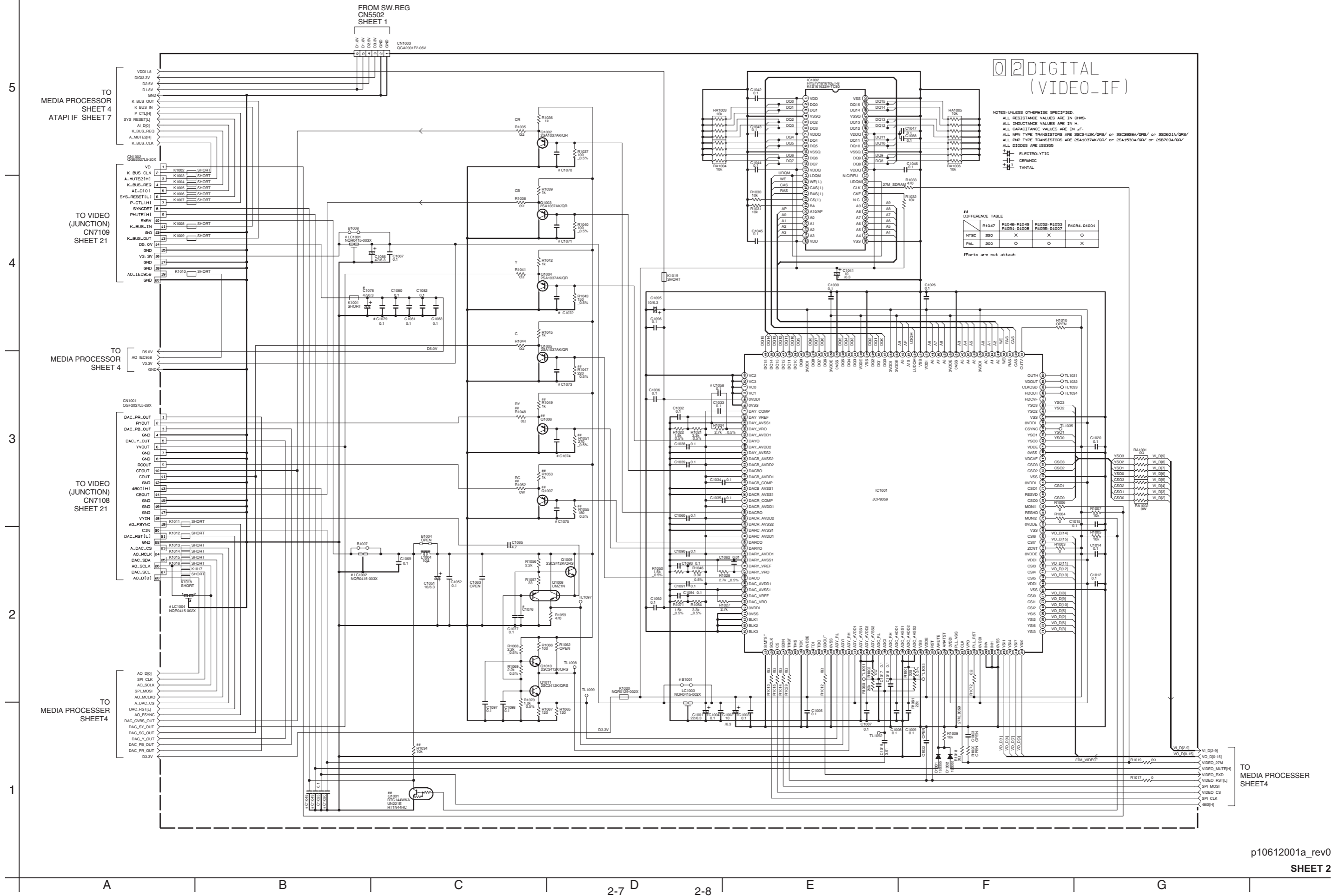
VIDEO IF  
FLASH  
MEDIA PROCESSOR  
DDR SDRAM  
1394PHY  
ATAPIIF

|           |         |
|-----------|---------|
| Page 2-7  | Sheet 2 |
| Page 2-9  | Sheet 3 |
| Page 2-11 | Sheet 4 |
| Page 2-13 | Sheet 5 |
| Page 2-15 | Sheet 6 |
| Page 2-17 | Sheet 7 |

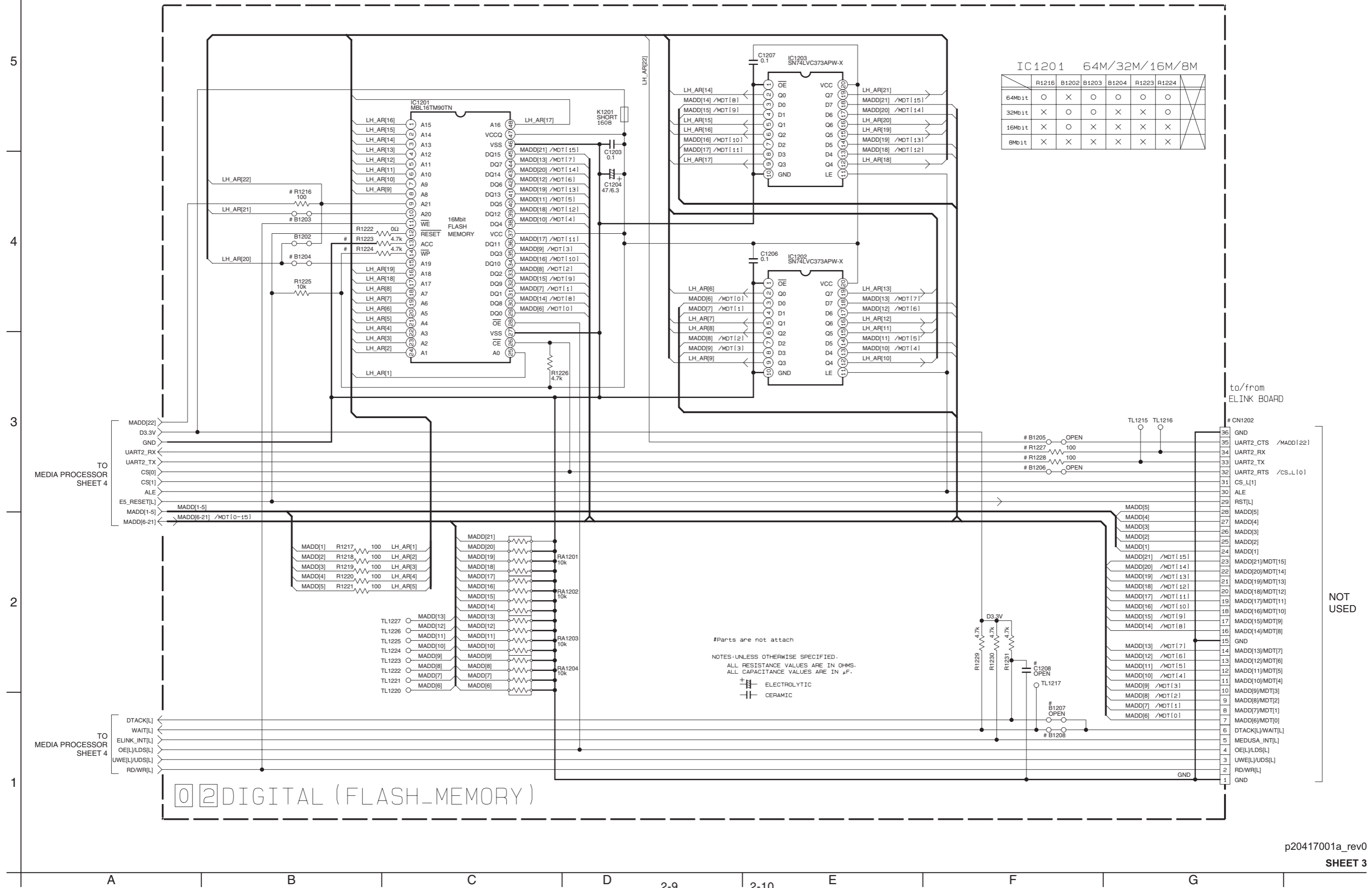
## ■ SW.REG AND JUNCTION SCHEMATIC DIAGRAM



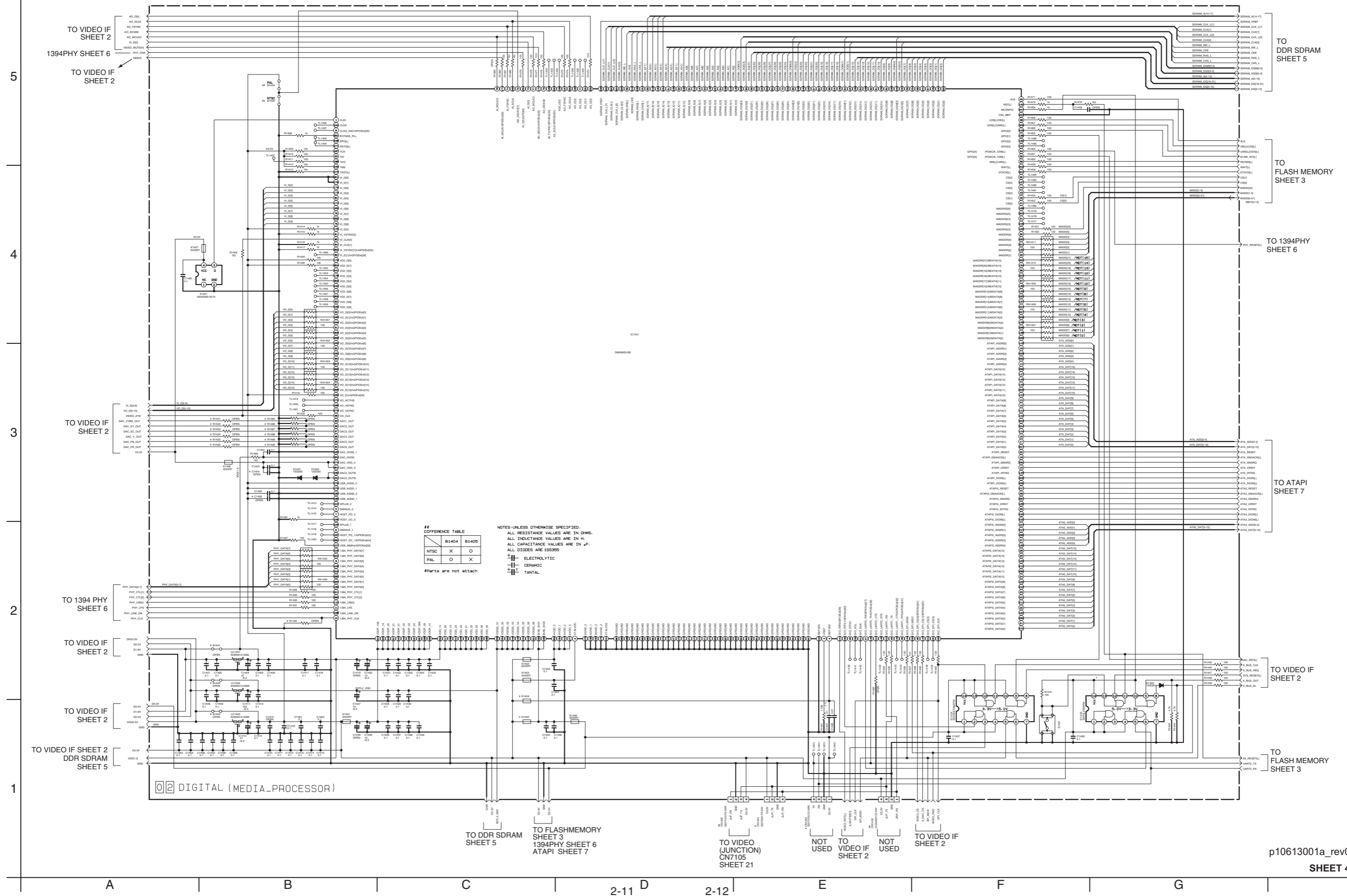
## ■ DIGITAL(VIDEO/IF) SCHEMATIC DIAGRAM



## ■ DIGITAL(FLASH MEMORY) SCHEMATIC DIAGRAM



## ■ DIGITAL(MEDIA PROCESSOR) SCHEMATIC DIAGRAM

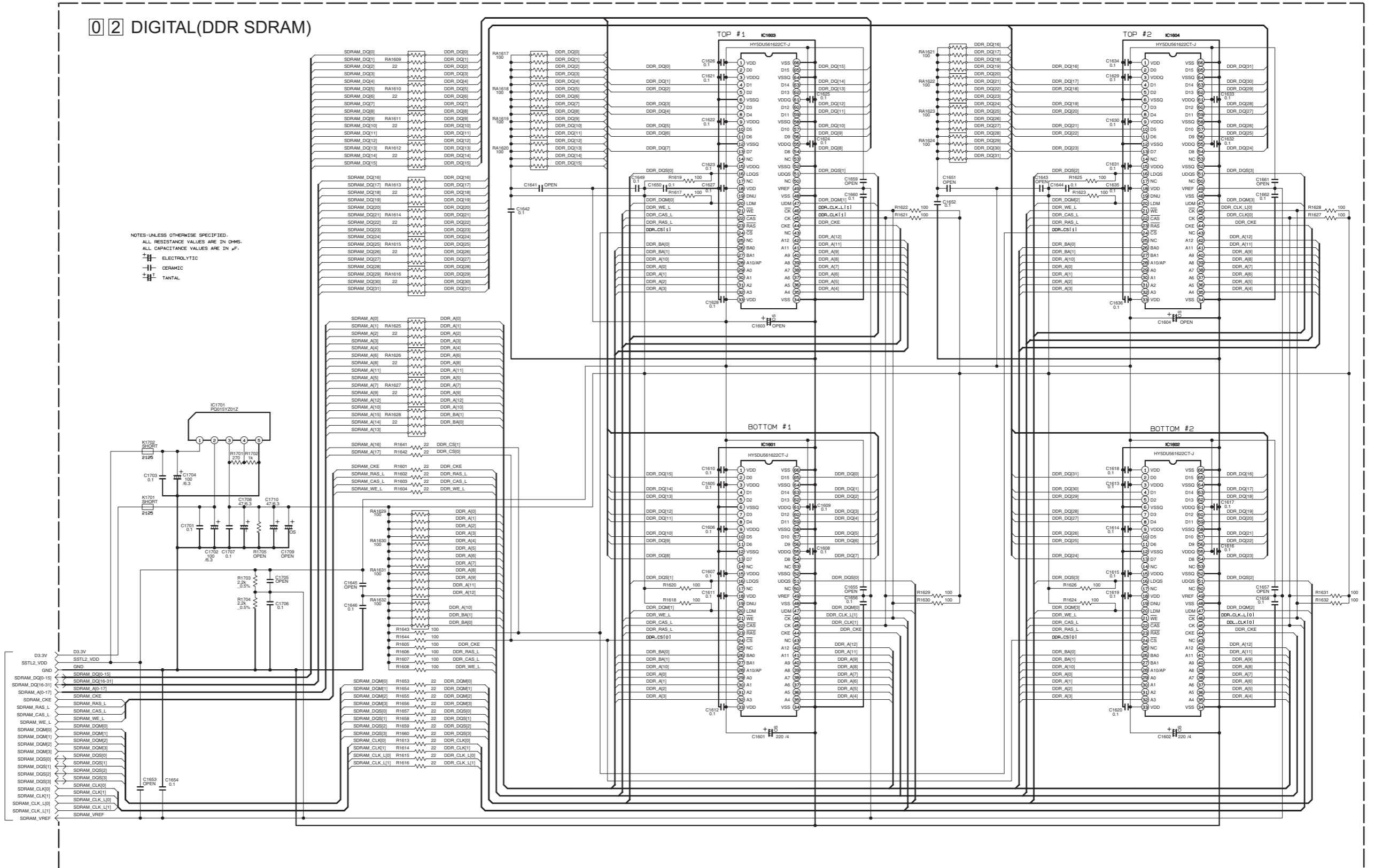


# DIGITAL(DDR SDRAM) SCHEMATIC DIAGRAM

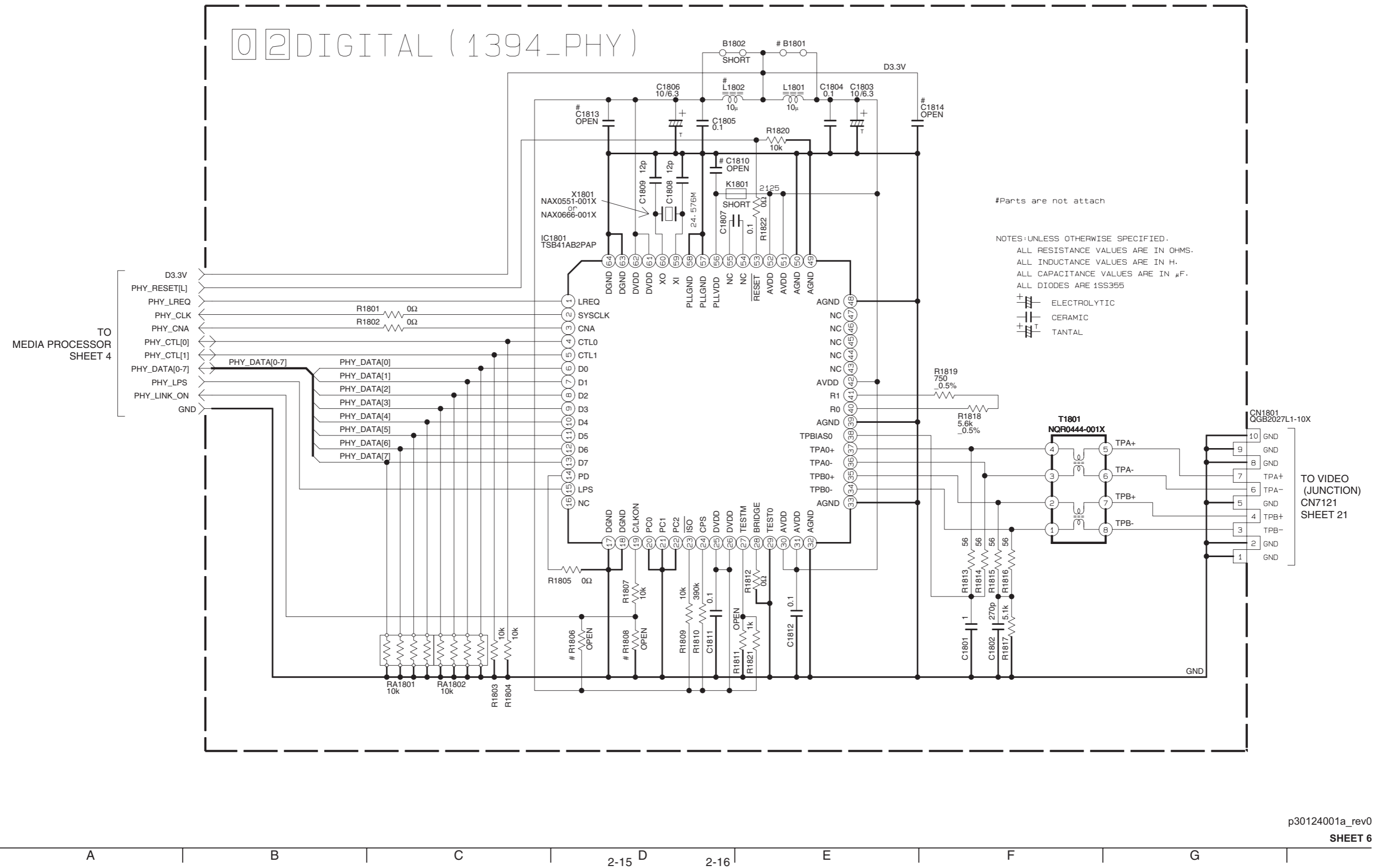
## 0 2 DIGITAL(DDR SDRAM)

NOTES-UNLESS OTHERWISE SPECIFIED:  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL CAPACITANCE VALUES ARE IN  $\mu$ F.

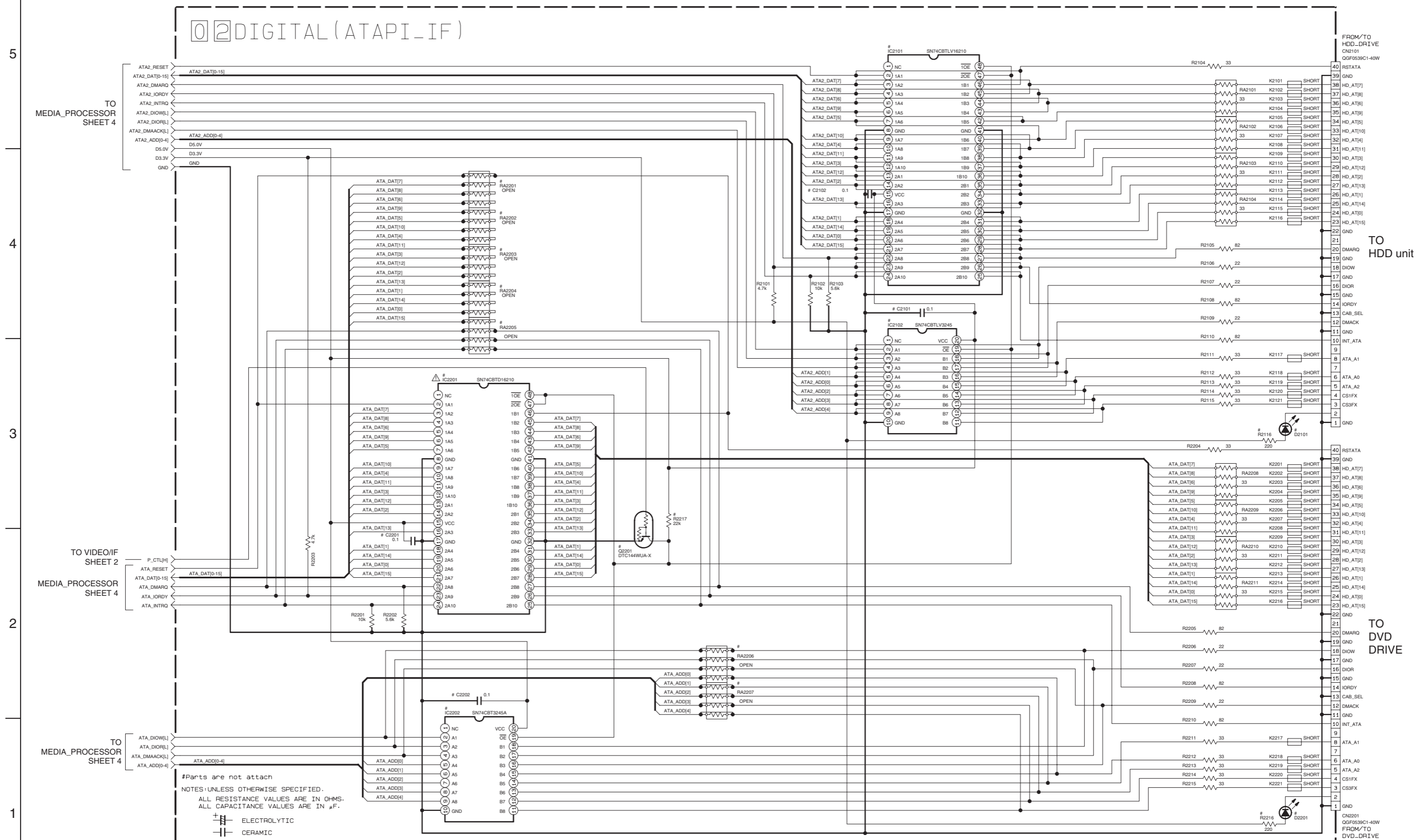
$\pm$  ELECTROLYTIC  
C CERAMIC  
T TANTAL



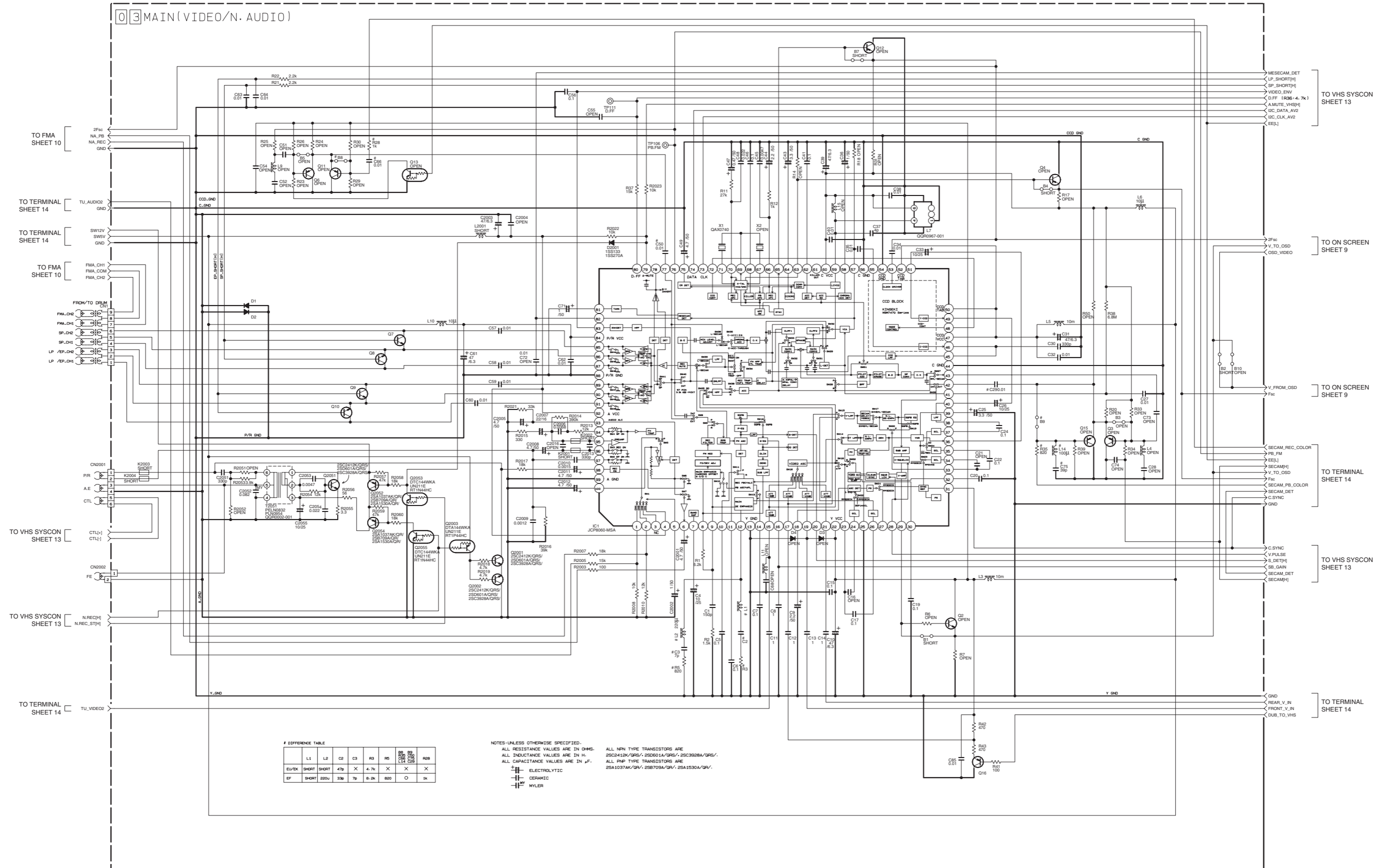
DIGITAL(1394 PHY) SCHEMATIC DIAGRAM



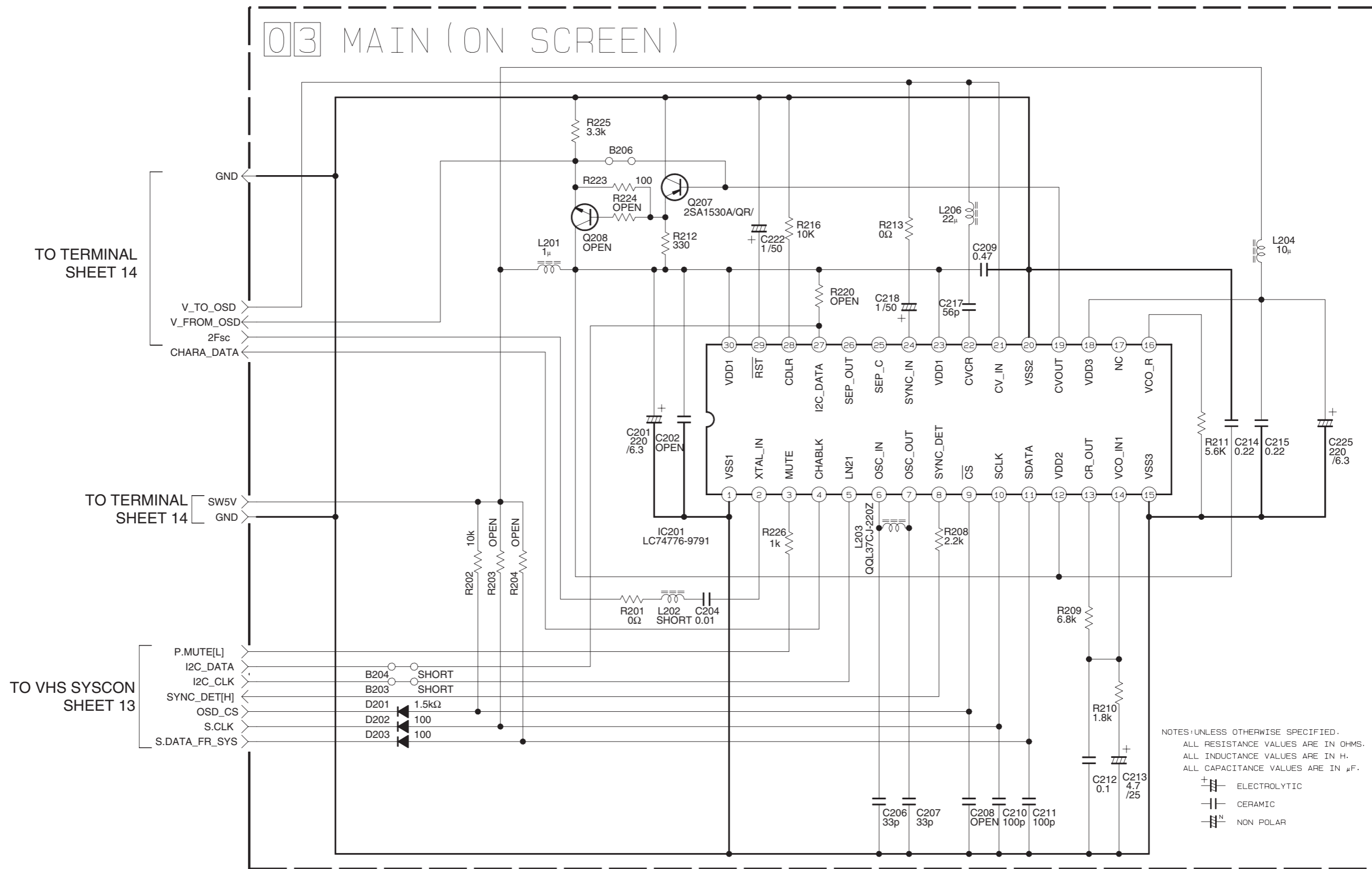
### ■ DIGITAL(ATAPI IF) SCHEMATIC DIAGRAM



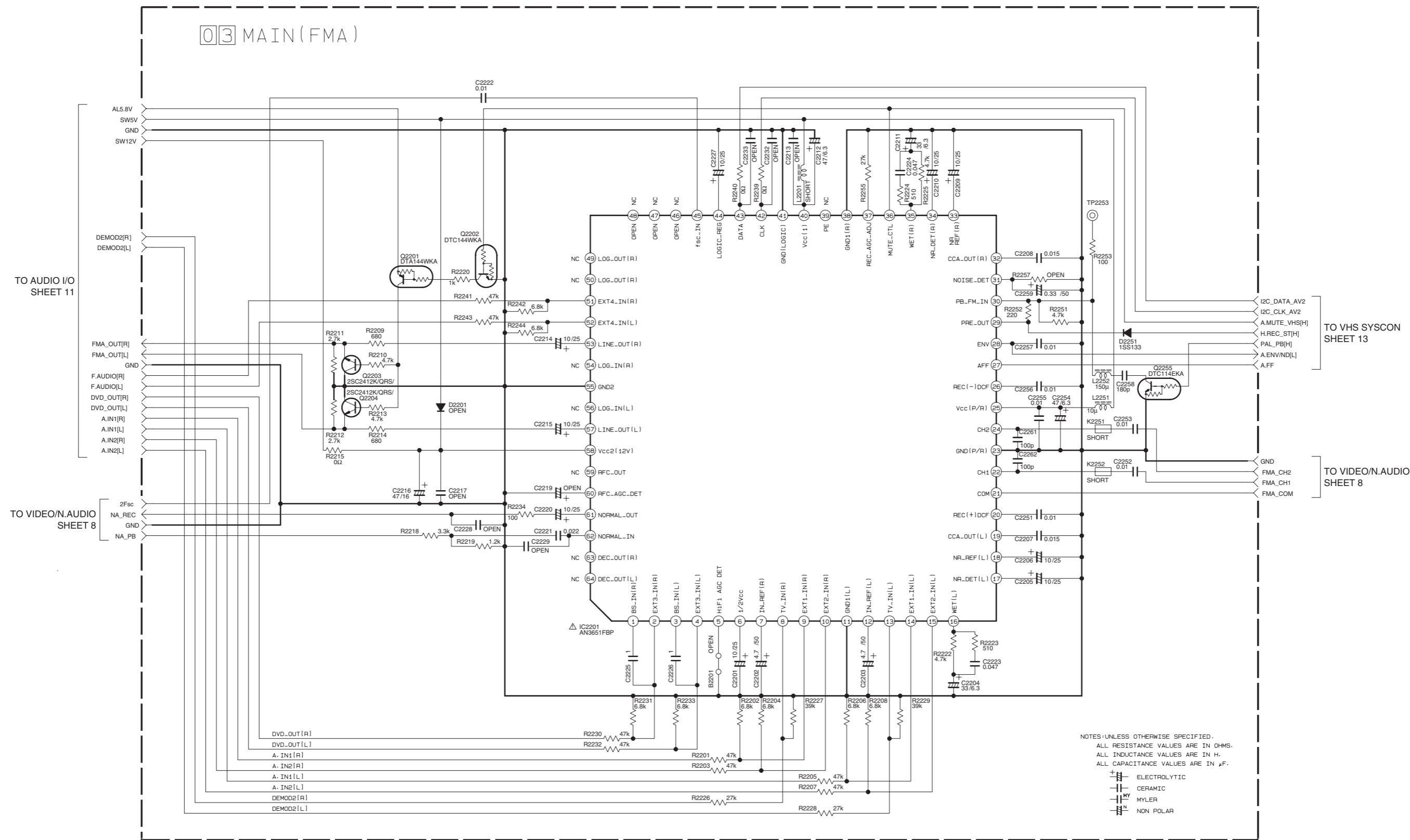
### ■ MAIN(VIDEO/N.AUDIO) SCHEMATIC DIAGRAM



■ MAIN(ON SCREEN) SCHEMATIC DIAGRAM



■ MAIN(FMA) SCHEMATIC DIAGRAM





■ MAIN(VDR SYSCON) SCHEMATIC DIAGRAM

5

4

3

2

1

MAIN(SYSCON VDR)

NOTES: UNLESS OTHERWISE SPECIFIED:  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN μF.

⎓ ELECTROLYTIC  
⎓ CERAMIC  
⎓ MYLAR  
⎓ NON POLAR

# DIFFERENCE TABLE

| EF    | R3074 | R3245 |
|-------|-------|-------|
| EL/EX | ×     | ×     |

## FOR FLASH ROM ONLY

TO AUDIO I/O  
SHEET 11

TO TERMINAL  
SHEET 14

TO JUNCTION(VIDEO)  
CN7102  
SHEET 21

TO TERMINAL  
SHEET 14

p10625001a\_rev0

SHEET 12





# ■ TERMINAL(I/O) SCHEMATIC DIAGRAM

06 TERMINAL (I/O)

NOTES: UNLESS OTHERWISE SPECIFIED:  
ALL RESISTANCE VALUES ARE IN OHMS.  
ALL INDUCTANCE VALUES ARE IN H.  
ALL CAPACITANCE VALUES ARE IN μF.  
ELECTROLYTIC  
CERAMIC  
NON POLAR

ALL NPN TYPE TRANSISTORS ARE  
2SC2412K/GRS/ 2SD601A/GRS/ 2SC3928A/GRS/  
2SA1037AK/GR/

5

4

3

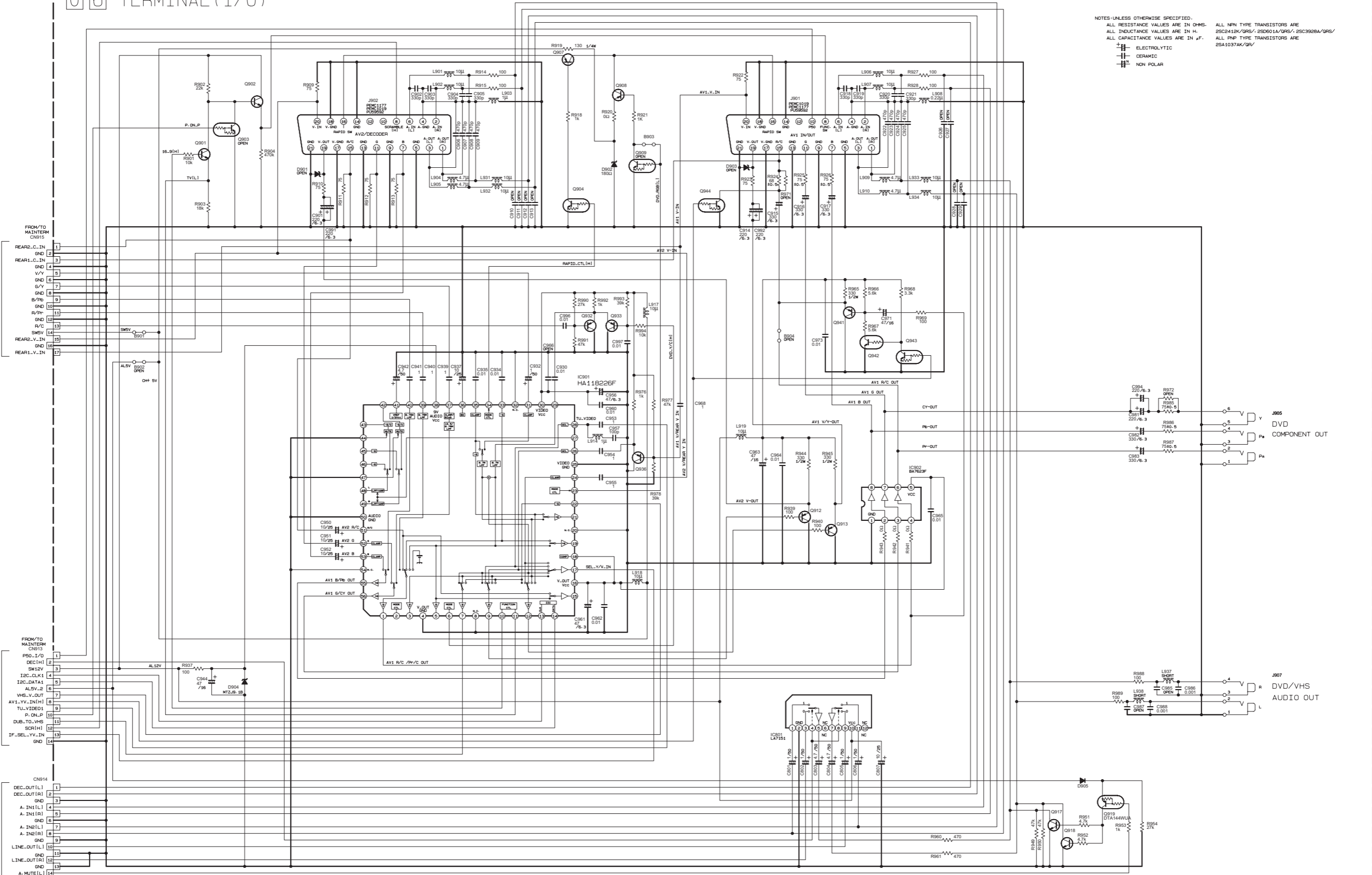
2

1

TO TERMINAL  
CN7115  
SHEET 14

TO TERMINAL  
CN7114  
SHEET 14

TO TERMINAL  
CN7113  
SHEET 14



## 1



|                |              | V13           |               |               | V14           |               |               |               | V15- V16      |               | V14DVS3       |               | D2            |               |               |
|----------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                |              | FRANCE MS     | EU/EK         | ARC           | EU/EK         | FRANCE MS     | KOREA         | ARC 4SYSTEM   | ARC 3SYSTEM   | EU/EX/EK      | MS/EF         | KR            | MS            | EX/EK         | AA/AG         |
| DEM0D PWB ASSY |              | LPA10094 -01* | LPA10094 -02* | LPA10094 -03* | LPA10094 -04* | LPA10094 -05* | LPA10094 -06* | LPA10094 -07* | LPA10094 -08* | LPA10094 -09* | LPA10094 -10* | LPA10094 -11* | LPA10094 -12* | LPA10094 -13* | LPA10094 -14* |
| PRE AMP        | R6703        | 47            | 47            | 47            | 0             | 0             | 47            | 0             | 0             | 0             | 0             | 47            | 0             | 0             | 0             |
|                | R6705        | 270           | 270           | 100           | 270           | 270           | 270           | 270           | 270           | 270           | 270           | 270           | 270           | 270           | 270           |
|                | R6706        | 150           | 150           | X             | X             | X             | 100           | X             | X             | X             | X             | 100           | X             | X             | X             |
|                | C6702        | 0.0022        | 0.0022        | 0.0022        | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             |
|                | C6703        | X             | X             | 220p          | X             | X             | X             | 220p          | 180p          | X             | X             | X             | X             | X             | 180p          |
|                | C6705        | 0.001         | 0.001         | X             | X             | X             | 0.001         | X             | X             | X             | X             | 0.001         | X             | X             | X             |
|                | L6701        | 1μ            | 1μ            | 1μ            | SHORT         | SHORT         | SHORT         | SHORT         | SHORT         | SHORT         | SHORT         | SHORT         | SHORT         | SHORT         | SHORT         |
|                | L6702        | 3.3μ          | 3.3μ          | 3.3μ          | X             | X             | 3.3μ          | 3.3μ          | 3.3μ          | X             | X             | 3.3μ          | X             | X             | 3.3μ          |
| MONO IN        | K6707        | FE 600        | X             | X             | X             | FE 600        | X             | X             | X             | X             | FE 600        | X             | FE 600        | X             | X             |
|                | C6724        | 0.22/50       | X             | X             | X             | 0.22/50       | X             | X             | X             | X             | 0.22/50       | X             | 0.22/50       | X             | X             |
|                | R6718        | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             |
| I2C-BUS        | R6708        | 100           | 100           | 100           | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | 10K           | 10K           |
|                | R6709        | 100           | 100           | 100           | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | 1K            | 1K            |
|                | K6703        | FE 600        | FE 600        | FE 600        | 1K            | 1K            | 1K            | 1K            | 1K            | 10K           | 0             | 1K            | 1K            | FE 600        | FE 600        |
|                | K6704        | FE 600        | FE 600        | FE 600        | 1K            | 1K            | 1K            | 1K            | 1K            | 0             | 0             | 1K            | 1K            | FE 600        | FE 600        |
|                | C6710, C6711 | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             |
|                |              |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| ANALOG Vcc     | R6707        | 22            | 47            | 47            | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | 39            | 0             | 0             |
|                | K6701        | FE 600        | FE 600        | FE 600        | 33            | 33            | 33            | 33            | 33            | 33            | 33            | 39            | FE 600        | FE 600        | FE 600        |
|                | C6706        | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             |
| DIGITAL Vcc    | R6710        | 10            | 12            | 12            | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | 12            | 0             | 0             |
|                | K6705        | FE 600        | FE 600        | FE 600        | 10            | 10            | 10            | 10            | 10            | 0             | 10            | 12            | FE 600        | FE 600        | FE 600        |
|                | C6712        | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             |
| DAC Vcc        | R6716        | 47            | 47            | 47            | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | FE 600        | 47            | 47            | 47            |
|                | K6706        | FE 600        | FE 600        | FE 600        | 47            | 47            | 47            | 47            | 47            | 47            | 47            | 47            | FE 600        | FE 600        | FE 600        |
|                | C6718        | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             |
| X' TAL         | C6708        | 8p            | 8p            | 8p            | 7p            | 7p            | 7p            | 7p            | 7p            | 7p            | 7p            | 7p            | 8p            | 7p            | 7p            |
|                | C6709        | 1p            | 1p            | 1p            | 3p            | 3p            | 3p            | 3p            | 3p            | 3p            | 3p            | 3p            | 2p            | 3p            | 3p            |
| DAC OUT        | R6713, R6715 | X             | X             | X             | X             | X             | X             | X             | X             | 12K           | 12K           | X             | X             | O             | O             |
|                | C6714, C6716 | 0.0068        | 0.0068        | 0.0068        | 0.0022        | 0.0068        | 0.0022        | 0.0022        | 0.0022        | 0.0022        | 0.0068        | 0.0022        | 0.0068        | 0.0022        | 0.0022        |
| VREF           | C6722        | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             | X             |
|                | C6723        | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.001         | 0.01          | 0.01          | 0.01          | 0.01          | 0.001         | 0.01          | 0.01          | 0.01          |



| FUNCTION | SYMBOL                | EU/EK           | EF            |
|----------|-----------------------|-----------------|---------------|
| TUNER    | TU6001-<br>TU6002     | ALPS<br>GAU0261 | L6<br>GAU0299 |
| MONO IN  | RE032-RE033-<br>CE037 | ×               | ○             |
|          | RE132-RE133-<br>CE137 | ×               | ○             |

3

2

1

■ OPERATION JACK,SWITCH DISPLAY AND JACK SCHEMATIC DIAGRAMS

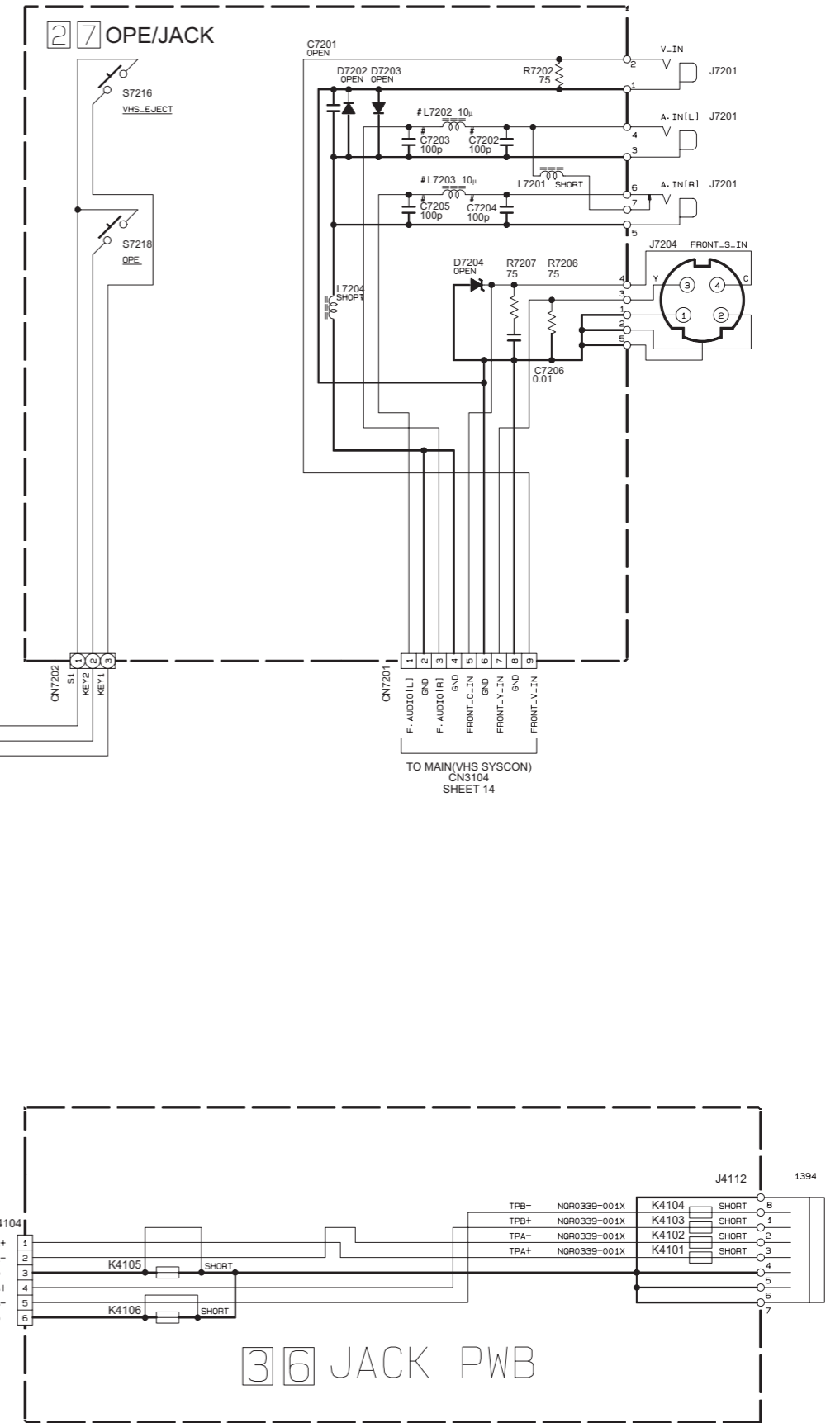
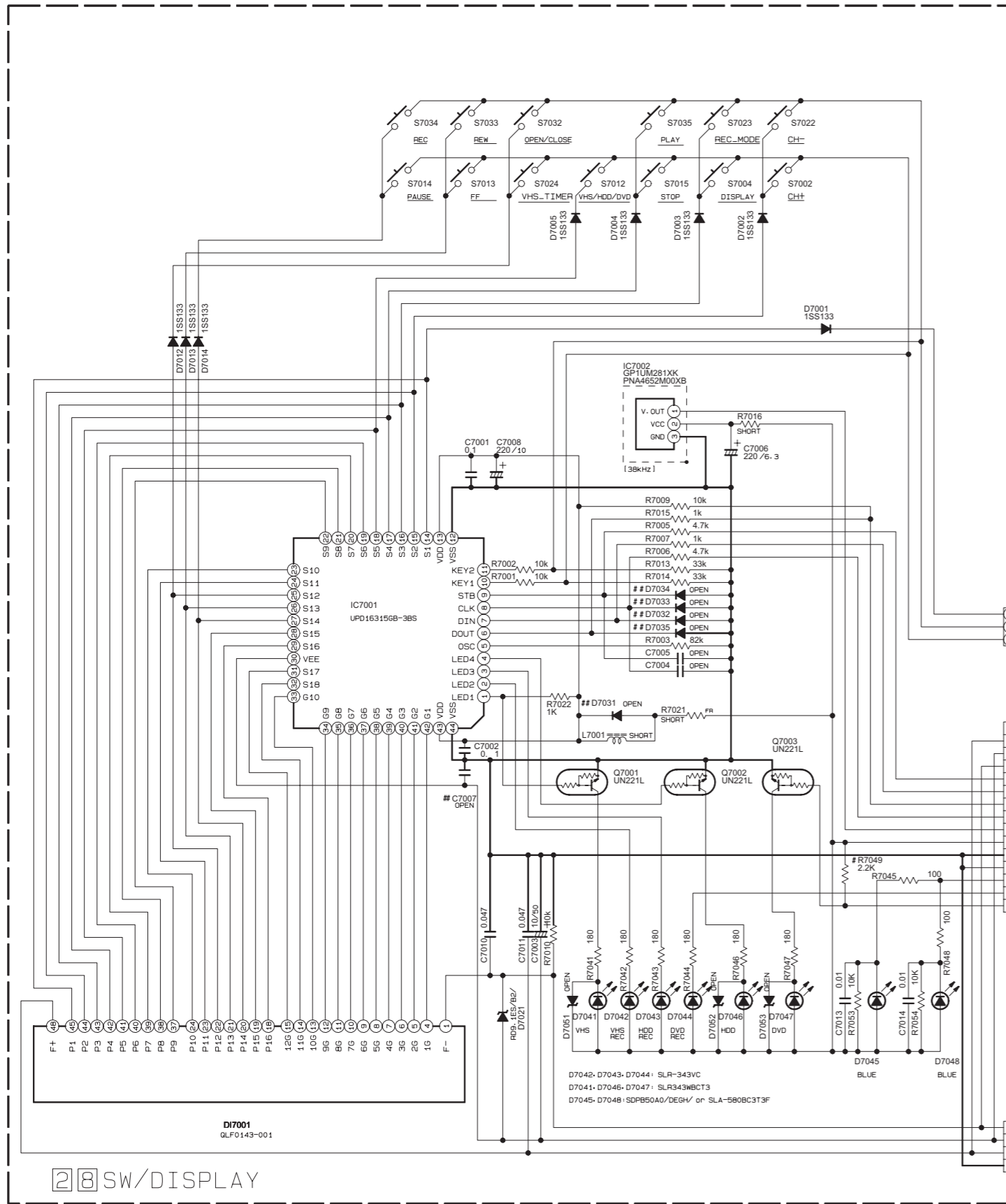
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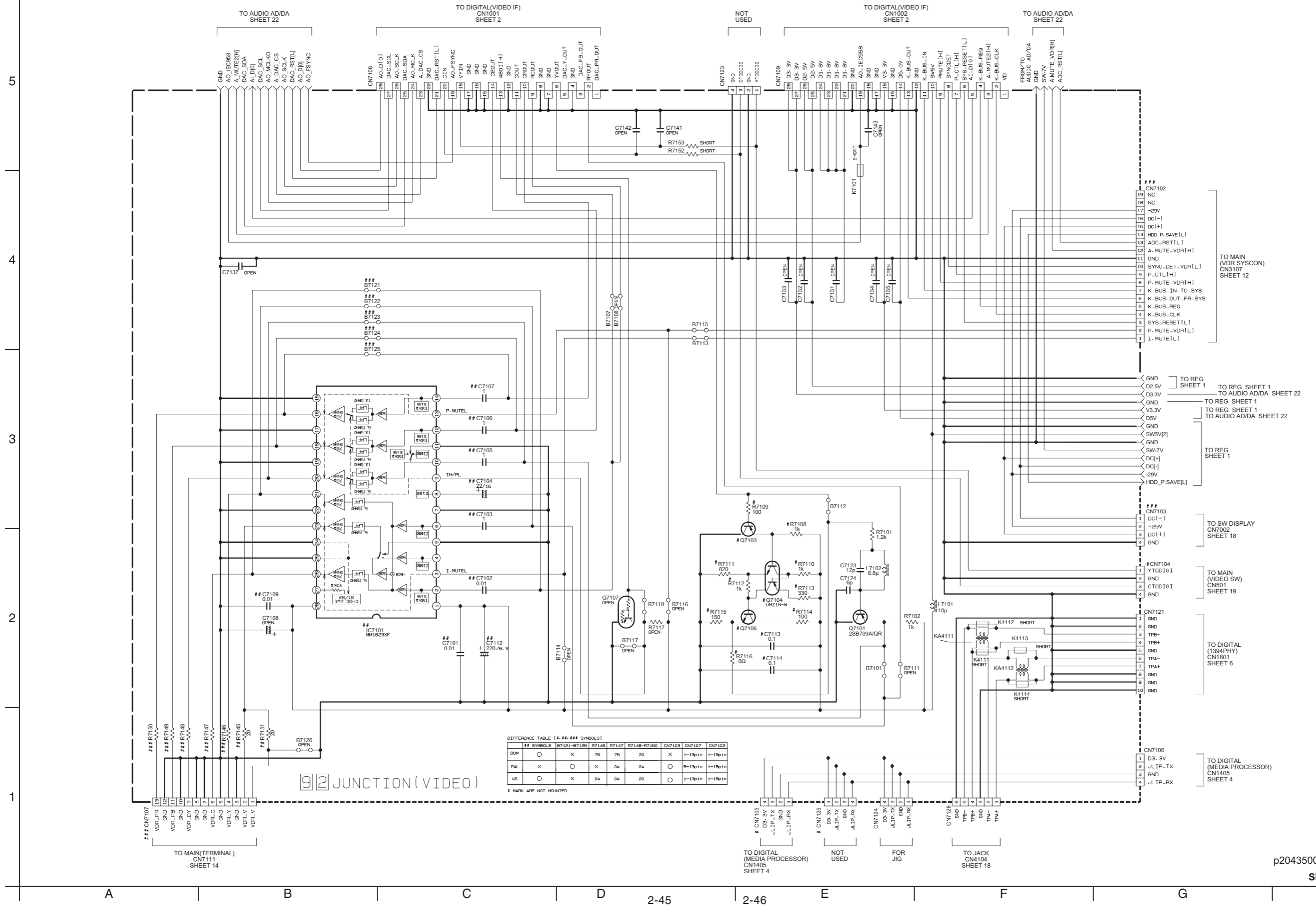




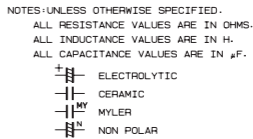
## 1



### ■ JUNCTION(VIDEO) SCHEMATIC DIAGRAM

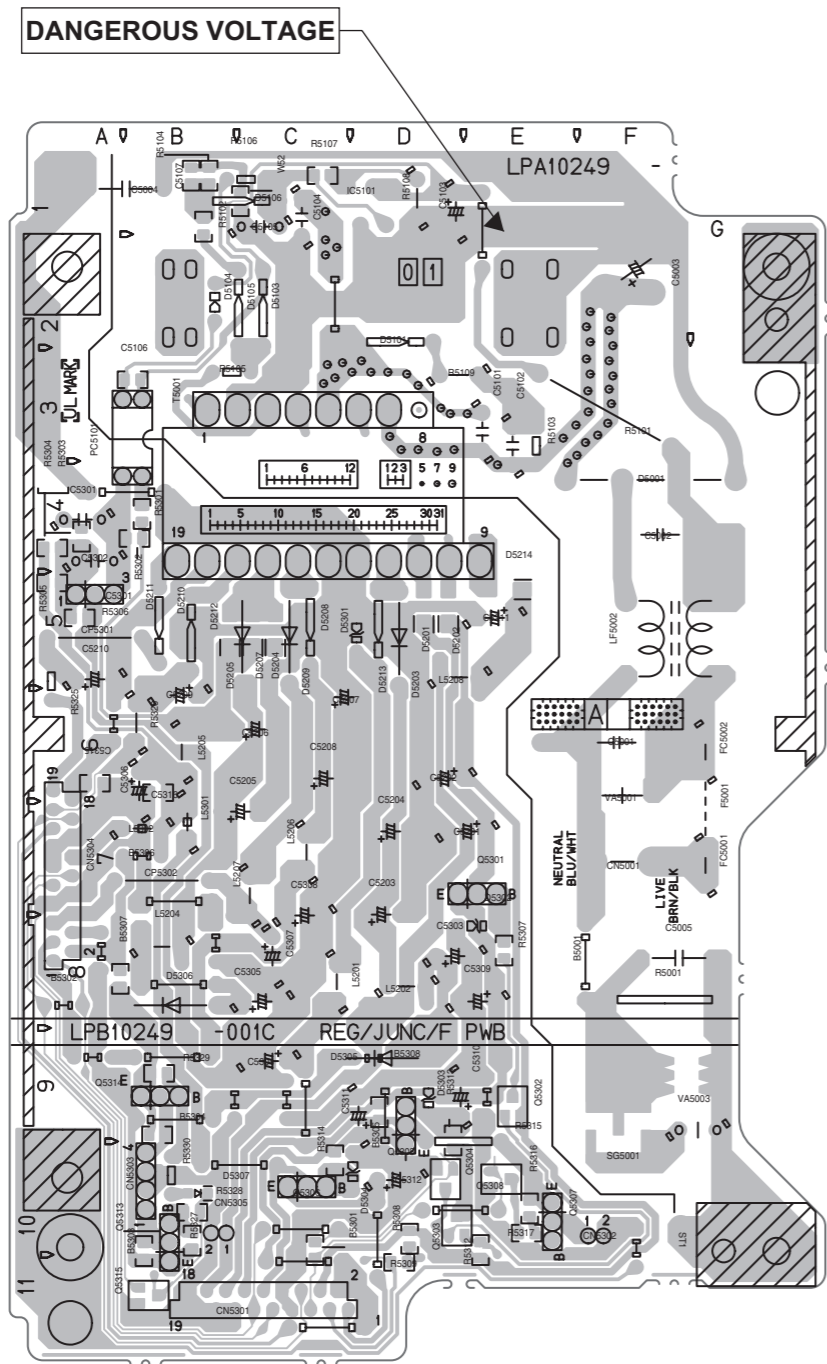


1



SWITCHING REGULATOR AND JUNCTION CIRCUIT BOARDS

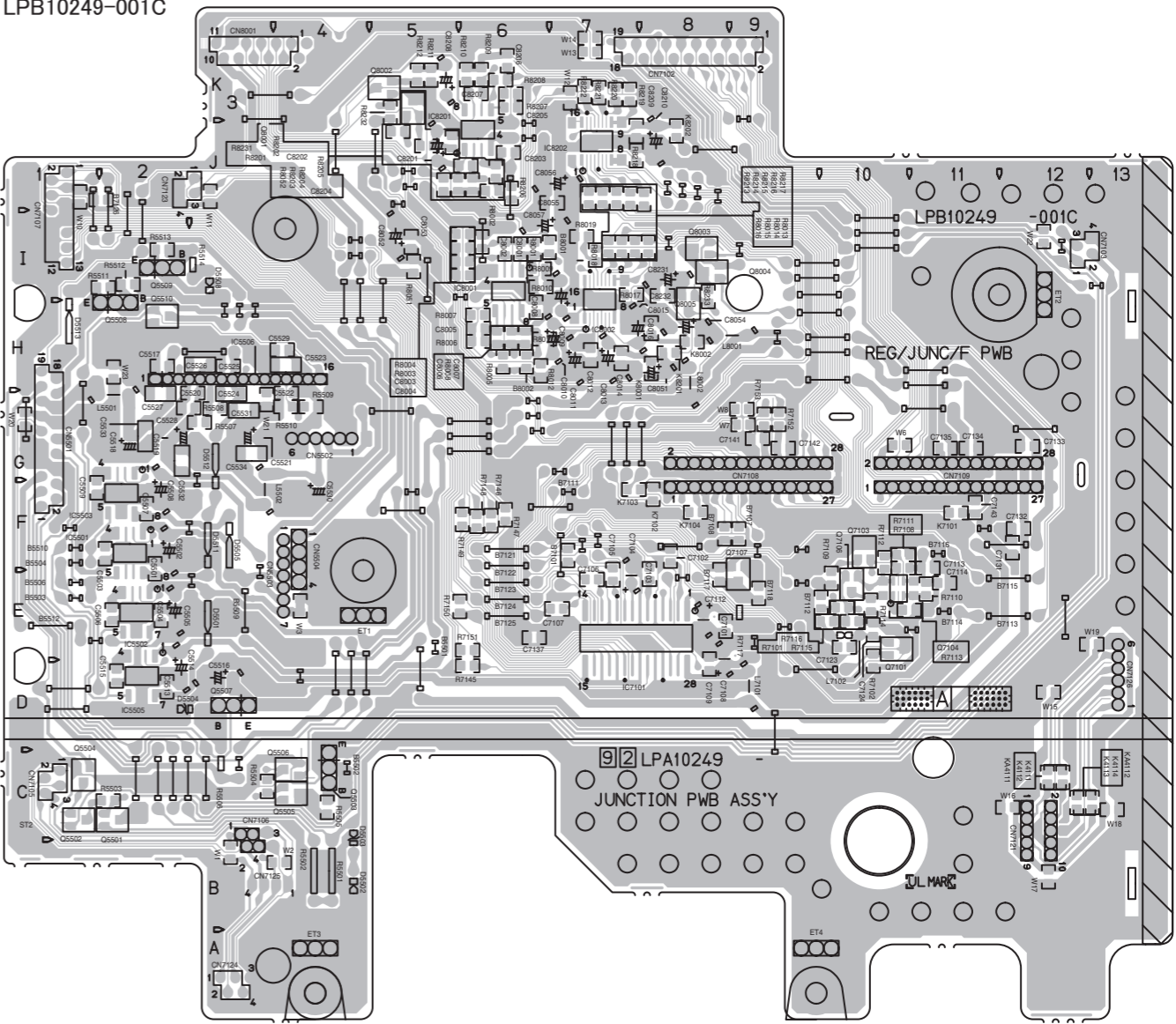
<01>SWITCHING  
REGULATOR  
LPB10249-001C



COMPONENT PARTS LOCATION GUIDE <SWITCHING REGULATOR> LPB10249-001C

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| CAPACITOR |          |         |          |           |          |         |          |            |          |         |          |          |          |         |          |         |          |         |          |        |        |
| C5001     | A D 6F   | C5204   | A D 7D   | C5309     | A D 8E   | D5001   | A D 4E   | D5212      | B C 5B   | IC5301  | A D 5A   | Q5303    | B C 10D  | R5105   | A D 3C   | R5314   | B C 10C  | FC5002  | A D 5G   |        |        |
| C5002     | A D 4F   | C5205   | A D 7B   | C5310     | A D 9D   | D5101   | A D 2D   | D5213      | B D 5D   |         |          | Q5304    | B C 10D  | R5106   | A D 1C   | R5315   | A D 10D  | LF5002  | A D 6F   |        |        |
| C5003     | A D 2F   | C5206   | A D 6C   | C5311     | A D 9D   | D5103   | A D 2C   | D5214      | B C 5E   | COIL    |          |          |          |         |          |         |          |         |          | PC5101 | A D 4B |
| C5004     | A D 1B   | C5207   | A D 6C   | C5312     | A D 10D  | D5104   | A D 2B   | D5301      | A D 5D   | L5201   | A D 8C   | Q5306    | A D 10C  | R5107   | B C 1C   | R5316   | B C 10E  | SG5001  | B C 9B   |        |        |
| C5005     | A D 8F   | C5208   | A D 6C   | C5315     | B C 6A   | D5105   | A D 2C   | D5302      | A D 8D   | L5202   | A D 8D   | Q5307    | A D 10E  | R5108   | A D 3D   | R5325   | A D 5A   | T5001   | A D 3B   |        |        |
| C5101     | A D 3E   | C5209   | A D 6B   | C5316     | B C 6B   | D5106   | A D 1B   | D5303      | A D 9D   | L5204   | A D 8B   | Q5308    | B C 10E  | R5109   | A D 4B   | R5326   | A D 6A   | VA5001  | A D 6F   |        |        |
| C5102     | A D 4E   | C5210   | A D 5A   |           |          | D5201   | B C 5D   | D5304      | A D 10D  | L5205   | A D 6B   | Q5313    | A D 11B  | R5109   | A D 3D   | R5327   | B C 10B  | VA5003  | A D 9G   |        |        |
| C5103     | A D 1D   | C5211   | A D 5E   | CONNECTOR |          | D5202   | B C 5D   | D5305      | A D 9D   | L5206   | A D 7C   | Q5314    | A D 9B   | R5109   | A D 3D   | R5328   | B C 10B  |         |          |        |        |
| C5104     | A D 1C   | C5301   | A D 4A   | CN5001    | A D 7F   | D5203   | A D 5D   | D5306      | A D 8B   | L5207   | A D 7C   | Q5315    | B C 11B  | R5109   | A D 3D   | R5329   | B C 10B  |         |          |        |        |
| C5105     | A D 1C   | C5302   | A D 4A   | CN5301    | A D 11C  | D5204   | B C 5C   | D5307      | B C 10B  | L5208   | A D 5E   |          |          | R5305   | B C 4A   | R5330   | A D 9B   |         |          |        |        |
| C5106     | A D 1C   | C5303   | A D 8D   | CN5302    | A D 10F  | D5205   | A D 5C   | D5308      | B C 10B  | L5209   | A D 7B   |          |          | R5306   | B C 5A   |         |          |         |          |        |        |
| C5107     | B C 3B   | C5304   | A D 9C   | CN5303    | A D 10B  | D5207   | B C 5C   | FUSE       |          | L5210   | A D 7B   | RESISTOR |          |         |          | R5307   | B C 8E   | OTHER   |          |        |        |
| C5107     | B C 1B   | C5305   | A D 8C   | CN5304    | A D 8A   | D5208   | A D 5C   | F5001      | A D 7G   | L5211   | A D 7B   | R5001    | A D 8F   | R5308   | B C 10D  | CM2     | B C 1B   |         |          |        |        |
| C5201     | A D 7E   | C5306   | A D 8B   | CN5305    | A D 10B  | D5209   | A D 5C   |            |          | L5212   | A D 7B   | R5101    | A D 3F   | R5309   | B C 11D  | CP5301  | A D 5U   |         |          |        |        |
| C5202     | A D 6E   | C5307   | A D 8C   |           |          | D5210   | A D 5B   | TRANSISTOR |          |         |          | R5102    | B C 1B   | R5310   | B C 10D  | PC5302  | A D 7A   |         |          |        |        |
| C5203     | A D 8D   | C5308   | A D 8C   |           |          | D5211   | A D 5B   | IC5101     | A D 1C   | Q5301   | A D 7D   | R5103    | A D 4E   | R5312   | B C 9D   | FC5002  | A D 7G   |         |          |        |        |
|           |          |         |          | DIODE     |          |         |          |            |          | Q5302   | B C 9E   | R5104    | B C 1B   | R5313   | B C 9E   | FC5001  | A D 7A   |         |          |        |        |

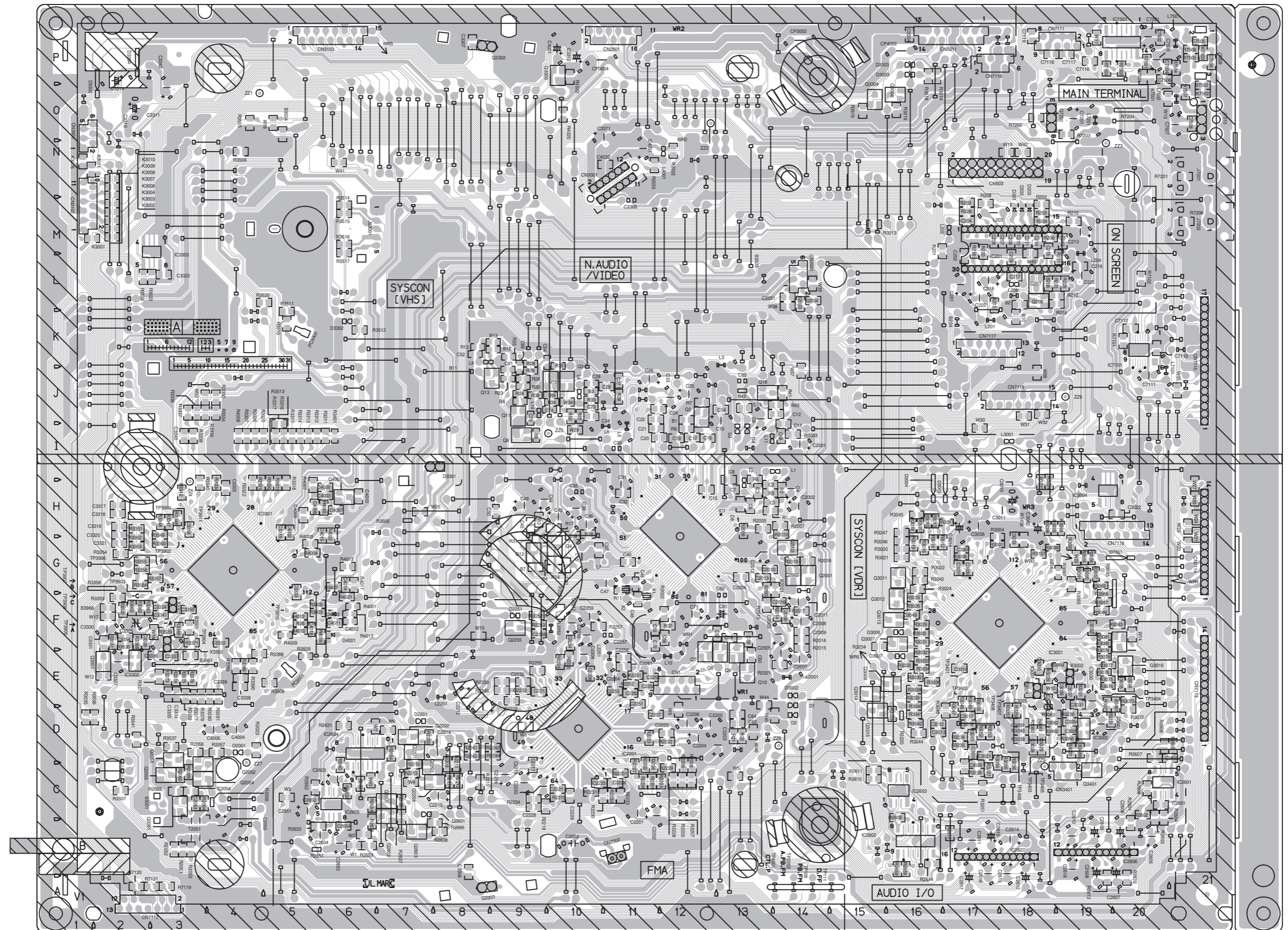
<92>JUNCTION  
LPB10249-001C



COMPONENT PARTS LOCATION GUIDE <JUNCTION> LPB10249-001C

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| CAPACITOR |          |         |          |         |          |           |          |         |          |         |          |         |          |         |          |         |          |         |          |
| C5501     | B C 2F   | C5531   | A D 4F   | C7143   | B C 11F  | C8204     | B C 6J   | CN8001  | A D 4K   | L5502   | A D 3F   |         | R7117    | A D 9E  | R8018    | B C 7I  | R8232    | B C 8I  |          |
| C5502     | A D 2F   | C5532   | B C 3G   | C8001   | B C 6I   | C8205     | B C 6K   |         |          | L7101   | A D 9D   |         | R7145    | B C 6D  | R8019    | B C 7I  | R8233    | B C 5K  |          |
| C5503     | B C 2F   | C5533   | B C 3G   | C8002   | B C 6I   | C8206     | B C 6K   | DIODE   |          |         |          | L7102   | A D 10E  | R5501   | A D 4B   | R7146   | B C 6F   | R8051   | B C 5I   |
| C5504     | B C 2E   | C5534   | B C 3G   | C8003   | B C 6I   | C8207     | B C 6K   | D5501   | A D 3E   | L8001   | A D 9H   | R5502   | A D 4B   | R7147   | B C 6F   | R8052   | B C 5J   | OTHER   |          |
| C5505     | A D 2E   | C7101   | B C 9E   | C8004   | B C 6I   | C8208     | A D 5K   | D5502   | A D 4B   | L8002   | A D 8G   | R5503   | B C 2C   | R7148   | B C 6F   | R8201   | B C 5J   |         |          |
| C5506     | B C 2E   | C7102   | B C 8F   | C8005   | B C 6H   | C8209     | B C 8J   | D5503   | A D 4C   |         |          | R5504   | B C 3C   | R7149   | B C 6F   | R8202   | B C 6J   | CM2     | B C 12K  |
| C5507     | B C 2F   | C7103   | B C 8E   | C8006   | B C 6H   | C8210     | A D 8J   | D5504   | A D 2D   |         |          | R5505   | A D 4C   | R7150   | B C 6E   | R8203   | B C 6J   | KA4111  | B C 13C  |
| C5508     | A D 2G   | C7104   | A D 7E   | C8007   | B C 6H   | C8211     | A D 8J   | D5505   | A D 3E   | Q5502   | B C 2C   | R5506   | B C 4C   | R7151   | B C 6E   | R8204   | B C 6J   | KA4113  | B C 12C  |
| C5509     | B C 2F   | C7105   | B C 7E   | C8008   | B C 6H   | C8212     | B C 8I   | D5506   | A D 3I   | Q5503   | B C 1C   | R5507   | B C 3G   | R7152   | B C 6E   | R8205   | B C 6J   | KA4114  | B C 13C  |
| C5510     | B C 2D   | C7106   | B C 7E   | C8009   | A D 7H   |           |          | D5511   | A D 3F   | Q5503   | A D 4C   | R5508   | B C 3G   | R7153   | B C 6E   | R8206   | B C 6J   | KA4116  | B C 11F  |
| C5511     | B C 2D   | C7107   | B C 7E   | C8010   | A D 7H   | CONNECTOR |          |         |          | D5512   | A D 3G   | Q5504   | B C 4G   | R5509   | B C 4G   | R8001   | B C 6I   | R8207   | B C 6K   |
| C5512     | A D 2E   | C7108   | B C 7E   | C8011   | A D 7H   | CN5501    | A D 1F   |         |          | D5513   | A D 1H   | Q5505   | B C 4C   | R5510   | B C 4G   | R8002   | B C 6I   | R8208   | B C 6K   |
| C5513     | B C 2D   | C7108   | A D 9D   | C8012   | B C 7H   | CN5502    | A D 4G   |         |          |         |          | Q5506   | B C 4C   | R5511   | B C 2I   | R8003   | B C 6I   | R8209   | B C 6K   |
| C5514     | A D 2E   | C7109   | B C 8D   | C8013   | A D 7H   | CN5503    | A D 4F   | IC      |          |         |          | Q5507   | A D 3D   | R5512   | B C 2I   | R8004   | B C 6I   | R8210   | B C 6K   |
| C5515     | B C 2H   | C7112   | A D 8E   | C8014   | B C 7H   | CN5504    | A D 4F   | IC5501  | B C 2F   |         |          | Q5508   | A D 2H   | R5513   | B C 2I   | R8005   | B C 6H   | R8211   | B C 5K   |
| C5516     | A D 2G   | C7113   | B C 11F  | C8015   | A D 8H   | CN7102    | A D 9K   | IC5502  | B C 2E   | Q5509   | A D 2I   | R5514   | A D 3I   | R8006   | B C 6H   | R8212   | B C 5K   | R8201   | B C 8H   |
| C5517     | A D 2G   | C7114   | B C 11E  | C8016   | B C 8H   | CN7103    | A D 12I  | IC5503  | B C 2F   | Q5510   | B C 2H   | R7101   | B C 10E  | R8007   | B C 6H   | R8213   | B C 7J   | R8202   | B C 8J   |
| C5520     | B C 3G   | C7123   | B C 10E  | C8051   | A D 8H   | CN7105    | A D 1C   | IC5505  | B C 2D   | Q7101   | B C 10E  | R7102   | B C 10D  | R8008   | B C 6H   | R8214   | B C 7J   | KA4111  | B C 12C  |
| C5521     | A D 3G   | C7124   | B C 10E  | C8052   | A D 5I   | CN7106    | A D 3C   | IC5506  | A D 2H   | Q7103   | B C 10F  | R7108   | B C 11F  | R8009   | B C 6I   | R8215   | B C 7J   | KA4112  | B C 13C  |
| C5522     | B C 4G   | C7131   | B C 12F  | C8053   | B C 5I   | CN7107    | A D 1J   | IC7001  | B C 8E   | Q7104   | B C 10E  | R7109   | B C 10E  | R8010   | B C 6I   | R8216   | B C 8J   |         |          |
| C5523     | B C 4H   | C7132   | B C 12F  | C8054   | A D 8H   | CN7108    | A D 8F   | CN8001  | B C 6I   | Q7106   | B C 10E  | R7110   | B C 11E  | R8011   | B C 7H   | R8217   | B C 7J   |         |          |
| C5524     | B C 3G   | C7133   | B C 12G  | C8055   | B C 7J   | CN7109    | A D 10F  | IC8002  | B C 7I   | Q7107   | B C 9E   | R7112   | B C 11F  | R8012   | B C 6H   | R8218   | B C 8J   |         |          |
| C5525     | B C 3H   | C7134   | B C 11G  | C8056   | A D 7J   | CN7121    | A D 12C  | IC8201  | B C 6J   | Q8001   | B C 5K   | R7113   | B C 10F  | R8013   | B C 8I   | R8219   | B C 7K   |         |          |
| C5526     | B C 3H   | C7135   | B C 11G  | C8057   | A D 7I   | CN7123    | A D 3J   | IC8202  | B C 7J   | Q8002   | B C 5K   | R7114   | B C 11E  | R8014   | B C 8I   | R8220   | B C 7K   |         |          |
| C5527     | B C 2G   | C7137   | B C 6E   | C8201   | A D 5J   | CN7124    | A D 3A   |         |          | Q8003   | B C 8I   | R7115   | B C 10E  | R8015   | B C 7I   | R8221   | B C 7K   |         |          |
| C5528     | B C 3G   | C7141   | B C 9G   | C8202   | B C 6J   | CN7125    | A D 4B   | COIL    |          |         |          | Q8004   | B C 8I   | R7115   | B C 10E  | R8016   | B C 7I   | R8222   | B C 7K   |
| C5529     | B C 4H   | C7142   | B C 9G   | C8203   | B C 6J   | CN7126    | A D 13D  | L5501   | A D 2G   | Q8005   | B C 8H   | R7116   | B C 10E  | R8017   | B C 7I   | R8231   | B C 5J   |         |          |

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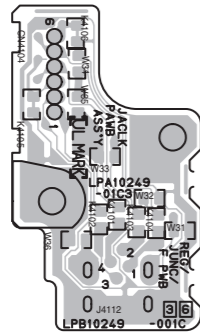


COMPONENT PARTS LOCATION GUIDE <MAIN> LPB10245-001D

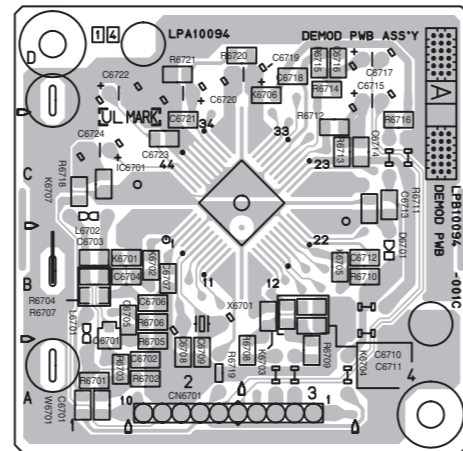
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| CAPACITOR | C2211    | A D 10F | C3339    | B C 4E    | L3       | A D 12K    | R208     | B C 17M | R3008    | B C 17G | R3327    | B C 4J  | J7010    | A D 22O |          |         |          |
| C1        | B C 13H  | C2212   | A D 8E   | C3340     | B C 3I   | L4         | A D 10J  | R209    | B C 18M  | R3011   | B C 17H  | R3330   | B C 4J   | J7201   | A D 21N  |         |          |
| C2        | B C 13H  | C2213   | B C 9E   | C3341     | B C 3F   | L5         | A D 11I  | R210    | B C 19M  | R3012   | B C 17G  | R3334   | B C 4H   | J7202   | A D 21M  |         |          |
| C3        | B C 13H  | C2214   | A D 8C   | C3342     | A D 3C   | L6         | A D 10I  | R211    | B C 19L  | R3013   | B C 16H  | R3335   | B C 3J   | J53001  | A D 9M   |         |          |
| C4        | A D 14H  | C2215   | A D 8C   | C3350     | B C 3F   | L7         | A D 10C  | R212    | B C 19L  | R3014   | B C 16H  | R3336   | B C 3J   | K2001   | B C 14G  |         |          |
| C5        | B C 13H  | C2216   | B C 9C   | C3354     | B C 2F   | L9         | A D 8K   | R213    | B C 17L  | R3015   | B C 16G  | R3337   | B C 3J   | K2002   | B C 13G  |         |          |
| C6        | B C 13H  | C2217   | B C 9C   | C3355     | B C 4H   | L10        | A D 11E  | R216    | B C 17M  | R3016   | B C 16G  | R3338   | B C 3J   | K2003   | B C 14L  |         |          |
| C7        | B C 13H  | C2219   | A D 9C   | C3366     | A D 11M  | L11        | A D 13I  | R220    | B C 17M  | R3017   | B C 16H  | R3340   | B C 3H   | K2004   | B C 14L  |         |          |
| C8        | B C 13J  | C2220   | A D 9C   | C3371     | A D 10C  | L14        | A D 9J   | R223    | B C 19L  | R3018   | B C 16H  | R3342   | B C 3H   | K2251   | B C 11E  |         |          |
| C9        | A D 13J  | C2221   | B C 10C  | C4001     | A D 10P  | L15        | A D 10G  | R224    | B C 19L  | R3019   | B C 16G  | R3346   | B C 3H   | K2252   | B C 11E  |         |          |
| C10       | A D 13J  | C2222   | B C 9E   | C4002     | B C 5H   | L201       | A D 18K  | R225    | B C 19L  | R3020   | B C 16G  | R3347   | B C 3H   | K3001   | B C 1M   |         |          |
| C11       | B C 14J  | C2223   | B C 12D  | C4003     | B C 6H   | L202       | A D 17M  | R226    | B C 17M  | R3021   | B C 16G  | R3348   | B C 3H   | K3002   | B C 2M   |         |          |
| C12       | B C 14J  | C2224   | B C 10C  | C4004     | A D 4D   | L203       | A D 17M  | R2003   | B C 14J  | R3022   | B C 16G  | R3349   | B C 3H   | K3003   | B C 2M   |         |          |
| C13       | B C 13J  | C2225   | B C 10C  | C4005     | B C 6H   | L204       | A D 19M  | R2005   | B C 13H  | R3024   | B C 16G  | R3350   | B C 3G   | K3004   | B C 2M   |         |          |
| C14       | B C 13J  | C2226   | B C 11C  | C4006     | A D 4D   | L206       | A D 18L  | R2007   | B C 14H  | R3025   | B C 16F  | R3351   | B C 2H   | K3005   | B C 1N   |         |          |
| C15       | B C 12H  | C2227   | A D 8D   | C4007     | B C 6H   | L2001      | A D 14E  | R2008   | B C 13H  | R3026   | B C 16F  | R3352   | B C 2G   | K3006   | B C 2M   |         |          |
| C16       | B C 12J  | C2228   | B C 9C   | C4008     | B C 5H   | L2201      | A D 8E   | R2010   | B C 14H  | R3029   | B C 16F  | R3353   | B C 2G   | K3007   | B C 2M   |         |          |
| C17       | B C 12J  | C2229   | B C 10C  | C4009     | B C 5H   | L2251      | A D 11E  | R2013   | B C 13F  | R3030   | B C 16F  | R3354   | B C 2G   | K3008   | B C 2N   |         |          |
| C19       | B C 12J  | C2232   | B C 9E   | C4010     | B C 6H   | L2252      | A D 10F  | R2014   | B C 14F  | R3031   | B C 16F  | R3355   | B C 2G   | K3009   | B C 2N   |         |          |
| C20       | B C 11J  | C2233   | B C 9E   | C4011     | B C 6F   | L3001      | A D 18I  | R2015   | B C 14F  | R3032   | B C 16E  | R3356   | B C 2G   | K3010   | B C 2N   |         |          |
| C21       | B C 11J  | C2251   | B C 11E  | C4012     | B C 6F   | L4001      | A D 12N  | R2016   | B C 14F  | R3033   | B C 16E  | R3357   | B C 3G   | K3011   | B C 1N   |         |          |
| C22       | B C 11J  | C2252   | B C 11E  | C4014     | B C 6G   | L7101      | A D 20K  | R2017   | B C 14F  | R3034   | B C 16E  | R3358   | A D 2G   | K7501   | B C 20P  |         |          |
| C24       | B C 11J  | C2253   | B C 11E  | C4015     | B C 6H   | L7201      | A D 19O  | R2018   | B C 14G  | R3035   | B C 16E  | R3359   | B C 2F   | K7502   | B C 21O  |         |          |
| C25       | A D 12J  | C2254   | A D 11E  | C4018     | B C 5F   | L7501      | A D 21P  | R2019   | B C 14G  | R3036   | B C 16E  | R3362   | B C 2F   | K7503   | B C 21P  |         |          |
| C26       | A D 11J  | C2255   | B C 11E  | C4031     | A D 11N  | L7502      | A D 21O  | R2021   | B C 14E  | R3038   | B C 16E  | R3363   | B C 2F   | PC3001  | A D 5E   |         |          |
| C27       | B C 11J  | C2256   | B C 11E  | C4032     | B C 11N  |            |          | R2022   | B C 12F  | R3039   | B C 16E  | R3366   | B C 2F   | PC3002  | A D 5K   |         |          |
| C28       | B C 10J  | C2257   | A D 11F  | C7110     | B C 20K  | TRANSISTOR |          | R2023   | B C 4D   | R3040   | B C 16E  | R3369   | B C 3F   | S3001   | A D 3C   |         |          |
| C29       | B C 11J  | C2258   | B C 9F   | C7111     | A D 20J  | Q2         | B C 12J  | R2051   | B C 3B   | R3041   | B C 16D  | R3371   | B C 3F   | T2051   | A D 3B   |         |          |
| C30       | A D 11J  | C2259   | A D 10F  | C7112     | B C 20K  | Q3         | B C 10J  | R2052   | B C 3B   | R3042   | B C 16D  | R3372   | B C 3E   | TP106   | A D 14A  |         |          |
| C31       | A D 11H  | C2261   | B C 11E  | C7116     | B C 19P  | Q4         | B C 10G  | R2053   | B C 3B   | R3044   | B C 16D  | R3373   | B C 3E   | TP111   | A D 15A  |         |          |
| C32       | B C 11H  | C2262   | B C 11E  | C7117     | B C 19P  | Q6         | B C 9I   | R2054   | B C 3C   | R3046   | B C 17D  | R3374   | B C 3E   | TP2253  | A D 14A  |         |          |
| C33       | A D 12J  | C2601   | B C 20C  | C7118     | B C 18P  | Q7         | B C 12E  | R2055   | B C 3C   | R3047   | B C 17D  | R3375   | B C 3E   | TP3401  | B C 17E  |         |          |
| C34       | B C 10J  | C2602   | B C 21D  | C7119     | B C 18P  | Q8         | B C 13E  | R2056   | A D 4C   | R3048   | B C 17E  | R3376   | B C 3E   | TP3402  | B C 17E  |         |          |
| C35       | A D 10H  | C2603   | A D 6C   | C7201     | A D 19O  | Q9         | B C 13E  | R2057   | B C 4D   | R3049   | B C 17E  | R3377   | B C 3E   | TP3403  | B C 18D  |         |          |
| C36       | A D 10H  | C2604   | A D 5B   | C7501     | A D 20P  | Q10        | B C 13E  | R2058   | B C 3D   | R3050   | B C 17E  | R3378   | B C 3E   | TP3404  | B C 19E  |         |          |
| C37       | B C 10G  | C2605   | A D 20B  | C7502     | B C 20P  | Q11        | B C 9J   | R2059   | B C 3C   | R3051   | B C 17D  | R3379   | B C 3E   | TP3405  | B C 19D  |         |          |
| C38       | B C 10H  | C2606   | A D 20B  | C7503     | A D 20P  | Q12        | B C 9G   | R2060   | B C 3C   | R3052   | B C 17D  | R3380   | B C 4E   | TP3406  | B C 18D  |         |          |
| C39       | A D 10H  | C2607   | A D 20B  | C7504     | B C 20P  | Q13        | B C 9J   | R2201   | B C 11C  | R3053   | B C 17D  | R3381   | B C 4E   | TP3407  | B C 18E  |         |          |
| C40       | B C 11G  | C2608   | A D 19B  | C7505     | B C 21P  | Q15        | B C 10J  | R2202   | B C 11C  | R3054   | B C 17D  | R3385   | B C 4E   | TP3408  | B C 18E  |         |          |
| C41       | B C 10G  | C2609   | A D 19B  | C7506     | B C 20P  | Q16        | B C 13J  | R2203   | B C 12C  | R3055   | B C 18C  | R3386   | B C 4E   | TP3901  | B C 3H   |         |          |
| C43       | A D 10H  | C2610   | A D 19B  | C7507     | A D 21O  | Q207       | B C 18L  | R2204   | B C 11C  | R3059   | B C 18D  | R3388   | B C 4E   | TP3902  | B C 3G   |         |          |
| C44       | A D 9H   | C2611   | A D 17B  | C7508     | B C 21O  | Q208       | B C 18L  | R2205   | B C 12C  | R3060   | B C 18D  | R3390   | B C 4E   | TP3903  | B C 3F   |         |          |
| C45       | B C 9H   | C2612   | A D 18B  | C7509     | B C 21P  | Q2001      | B C 14G  | R2206   | B C 12C  | R3061   | B C 18D  | R3403   | B C 5F   | TP3904  | B C 3F   |         |          |
| C46       | B C 11G  | C2613   | A D 18B  |           |          | Q2002      | B C 14G  | R2207   | B C 12C  | R3062   | B C 18D  | R3405   | B C 5F   | TP3905  | B C 3F   |         |          |
| C47       | A D 11G  | C2614   | A D 18B  | CONNECTOR |          | Q2003      | B C 14G  | R2208   | B C 12C  | R3063   | B C 18D  | R3407   | B C 6G   | TP3906  | B C 3G   |         |          |
| C48       | B C 11F  | C2615   | A D 17B  | CN1       | A D 12E  | Q2051      | B C 3C   | R2209   | B C 8C   | R3066   | B C 19D  | R3451   | B C 6I   | TP3907  | B C 3G   |         |          |
| C49       | A D 9H   | C2616   | A D 17B  | CN503     | A D 17N  | Q2052      | B C 3C   | R2210   | B C 7C   | R3069   | B C 19E  | R3505   | A D 7H   | TP3908  | B C 2F   |         |          |
| C50       | B C 9H   | C2617   | A D 17B  | CN2001    | A D 14L  | Q2053      | B C 3D   | R2211   | B C 8C   | R3071   | B C 19E  | R3506   | B C 4N   | TP3910  | B C 5F   |         |          |
| C51       | B C 9J   | C2618   | A D 19B  | CN2002    | A D 11B  | Q2054      | B C 3C   | R2212   | B C 8C   | R3072   | B C 20D  | R3507   | B C 2C   | TP3911  | B C 4H   |         |          |
| C52       | B C 8K   | C2651   | A D 5C   | CN2601    | A D 10P  | Q2055      | B C 3C   | R2213   | B C 7C   | R3073   | B C 20E  | R3508   | B C 5E   | TP4001  | A D 14A  |         |          |
| C54       | B C 10K  | C2652   | B C 5C   | CN3001    | A D 11N  | Q2201      | B C 7D   | R2214   | B C 8C   | R3074   | B C 19E  | R3509   | B C 5E   | WR1     | A D 12F  |         |          |
| C55       | B C 11F  | C2653   | A D 6B   | CN3102    | A D 1M   | Q2202      | B C 7D   | R2215   | B C 8C   | R3075   | B C 19E  | R3510   | B C 5K   | WR2     | A D 12N  |         |          |
| C56       | B C 12F  | C2654   | B C 6B   | CN3103    | A D 5P   | Q2203      | B C 7C   | R2218   | B C 9C   | R3076   | B C 19E  | R3511   | B C 5K   | WR3     | A D 18G  |         |          |
| C57       | B C 13F  | C3007   | B C 17G  | CN3401    | A D 19C  | Q2204      | B C 8C   | R2219   | B C 10C  | R3077   | B C 19E  | R3512   | B C 6K   | WR4     | A D 21G  |         |          |
| C58       | B C 13F  | C3010   | A D 18H  | CN3901    | A D 1N   | Q2255      | B C 9F   | R2220   | B C 7D   | R3078   | B C 19E  | R3513   | B C 5I   | WR5     | A D 15E  |         |          |
| C59       | B C 13F  | C3011   | A D 18H  | CN5311    | A D 17P  | Q2601      | B C 7C   | R2222   | B C 12D  | R3079   | B C 19E  | R3514   | B C 6M   | X1      | A D 11F  |         |          |
| C60       | B C 13E  | C3012   | B C 16D  | CN7111    | A D 19P  | Q2602      | B C 7C   | R2223   | B C 11D  | R3080   | B C 19F  | R3515   | B C 6M   | X2      | A D 11G  |         |          |
| C61       | A D 12F  | C3013   | B C 16D  | CN7112    | A D 3A   | Q2603      | B C 7B   | R2224   | B C 10E  | R3081   | B C 19F  | R3516   | B C 6M   | X3001   | A D 18E  |         |          |
| C62       | A D 12F  | C3014   | A D 17H  | CN7113    | A D 21D  | Q3004      | B C 16O  | R2225   | B C 10E  | R3083   | B C 20F  | R3517   | B C 6M   | X3002   | A D 19E  |         |          |
| C63       | B C 13D  | C3015   | B C 17G  | CN7114    | A D 21G  | Q3007      | B C 16F  | R2226   | B C 11C  | R3085   | A D 20G  | R3518   | B C 16P  | X3301   | A D 3F   |         |          |
| C64       | B C 13D  | C3016   | B C 17E  | CN7115    | A D 21J  | Q3009      | B C 16E  | R2227   | B C 11C  | R3086   | B C 19F  | R3519   | B C 15O  | X3302   | A D 3F   |         |          |
| C66       | B C 9J   | C3017   | B C 17D  | CN7116    | A D 19H  | Q3011      | B C 16G  | R2228   | B C 12C  | R3087   | B C 19F  | R3520   | B C 5L   |         |          |         |          |
| C68       | B C 14J  | C3018   | B C 17D  | CN7117    | A D 17K  | Q3012      | B C 16F  | R2229   | B C 12C  | R3088   | B C 19F  | R3522   | B C 10P  |         |          |         |          |
| C71       | A D 12F  | C3019   | B C 17D  | CN7118    | A D 17P  | Q3013      | B C 16F  | R2230   | B C 11C  | R3089   | B C 19G  | R3523   | B C 3L   |         |          |         |          |
| C72       | B C 11F  | C3020   | B C 17C  | CN7119    | A D 17J  | Q3014      | B C 15E  | R2231   | B C 10C  | R3090   | B C 19G  | R3524   | B C 2L   |         |          |         |          |
| C73       | B C 10J  | C3021   | B C 17D  |           |          | Q3015      | B C 15D  | R2232   | B C 11C  | R3091   | B C 19G  | R3529   | B C 3F   |         |          |         |          |
| C74       | B C 10J  | C3022   | B C 20H  | DIODE     |          | Q3016      | B C 20E  | R2233   | B C 11C  | R3092   | B C 19G  | R3530   | B C 2F   |         |          |         |          |
| C75       | B C 9J   | C3024   | B C 18E  | D1        | A D 14E  | Q3017      | B C 20F  | R2234   | B C 9C   | R3093   | B C 19G  | R3531   | B C 2F   |         |          |         |          |
| C85       | A D 13J  | C3025   | A D 19E  | D2        | A D 14D  | Q3302      | A D 8F   | R2239   | B C 9E   | R3094   | B C 19H  | R3535   | B C 1D   |         |          |         |          |
| C201      | A D 17L  | C3026   | B C 19D  | D3        | A D 13I  | Q3303      | A D 8E   | R2240   | B C 9E   | R3095   | B C 18H  | R3536   | B C 2D   |         |          |         |          |
| C202      | B C 17L  | C3027   | A D 19D  | D4        | A D 13I  | Q3304      | B C 15C  | R2241   | B C 8E   | R3096   | B C 18H  | R3537   | B C 3D   |         |          |         |          |
| C204      | B C 17M  | C3028   | B C 18D  | D201      | B C 18M  | Q3305      | B C 10P  | R2242   | B C 9D   | R3097   | B C 19G  | R3541   | B C 2D   |         |          |         |          |
| C206      | B C 17M  | C3029   | B C 18D  | D202      | B C 18M  | Q3401      | B C 19C  | R2243   | B C 8D   | R3098   | B C 18G  | R3552   | B C 12N  |         |          |         |          |
| C207      | B C 18M  | C3030   | A D 19E  | D203      | B C 18M  | Q3901      | B C 2E   | R2244   | B C 9D   | R3107   | B C 18G  | R3553   | B C 11N  |         |          |         |          |
| C208      | B C 18M  | C3031   | B C 19E  | D2001     | A D 4D   | Q4001      | B C 6H   | R2251   | B C 10F  | R3108   | B C 18G  | R3554   | B C 4J   |         |          |         |          |
| C209      | B C 18L  | C3032   | B C 19F  | D2201     | A D 7D   | Q7201      | A D 18O  | R2252   | B C 9F   | R3213   | B C 15M  | R3555   | B C 4O   |         |          |         |          |
| C210      | B C 18M  | C3033   | B C 18G  | D2251     | A D 9F   |            |          | R2253   | B C 9F   | R3214   | B C 16D  | R3564   | B C 2G   |         |          |         |          |
| C211      | B C 18M  | C3034   | B C 20E  | D2601     | A D 7C   | RESISTOR   |          | R2255   | B C 9E   | R3218   | B C 16P  | R4001   | B C 6F   |         |          |         |          |
| C212      | B C 19M  | C3035   | B C 20E  | D300      |          |            |          |         |          |         |          |         |          |         |          |         |          |

## ■ JACK, DEMOD, SWITCH/DISPLAY, AND SECAM CIRCUIT BOARDS

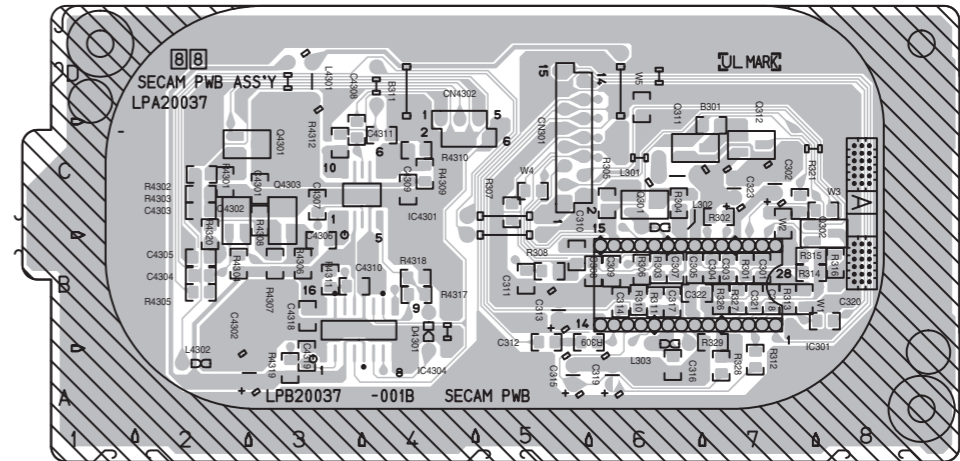
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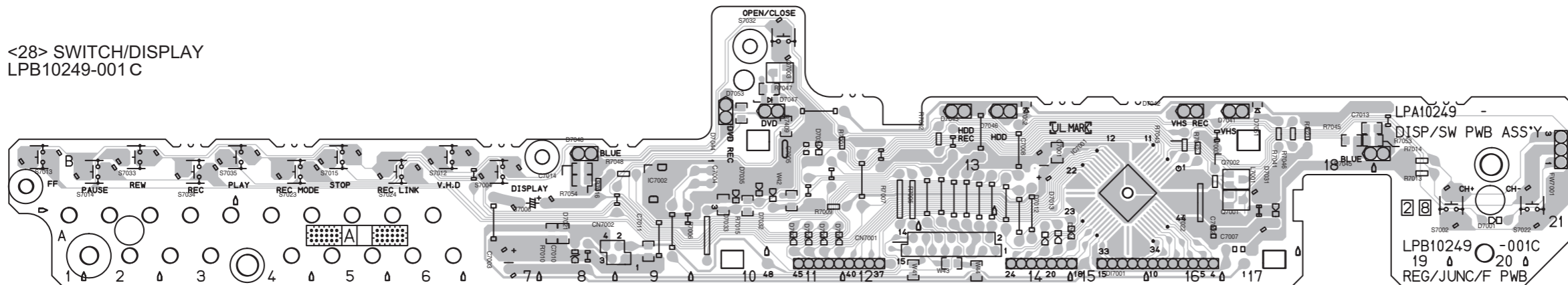
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| CAPACITOR        |   |   | C6714            | B                   | C | 4C               | DIODE<br>D6701 |               |                  | A                   | D | 4B               | RESISTOR |       |                  | R6714 | B     | C              | 3D | K6706 | B  | C     | 3     |   |    |       |       |   |    |    |
| C6701            | B | C | 1A               | C6715               | A | D                |                |               |                  | 4D                  |   |                  |          | R6701 | B                | C     | 1A    | R6715          | B  | C     | 3D | K6707 | B     | C | 1  |       |       |   |    |    |
| C6702            | B | C | 2A               | C6716               | B | C                |                |               |                  | 3D                  |   |                  |          | R6702 | B                | C     | 2A    | R6716          | B  | C     | 4C | X6701 | A     | D | 2  |       |       |   |    |    |
| C6703            | B | C | 1B               | C6717               | A | D                |                |               |                  | 4D                  |   |                  |          | R6703 | B                | C     | 1A    | R6717          | B  | C     | 1C |       |       |   |    |       |       |   |    |    |
| C6704            | B | C | 1B               | C6718               | A | D                | 3D             | IC<br>IC6701  |                  |                     | B | C                | 3C       | R6704 | B                | C     | 1B    | R6718          | A  | D     | 2A |       |       |   |    |       |       |   |    |    |
| C6705            | B | C | 2B               | C6719               | A | D                | 3D             |               |                  |                     |   |                  |          | R6705 | B                | C     | 2A    | R6720          | B  | C     | 3D |       |       |   |    |       |       |   |    |    |
| C6706            | B | C | 2B               | C6720               | A | D                | 2D             |               |                  |                     |   |                  |          | R6706 | B                | C     | 2B    | R6721          | B  | C     | 2D |       |       |   |    |       |       |   |    |    |
| C6707            | B | C | 2B               | C6721               | B | C                | 2C             |               |                  |                     |   |                  |          | R6707 | B                | C     | 1B    |                |    |       |    |       |       |   |    |       |       |   |    |    |
| C6708            | B | C | 2A               | C6722               | A | D                | 1D             | COIL<br>L6701 |                  |                     | A | D                | 1A       | R6708 | B                | C     | 3A    | OTHER<br>K6701 |    |       |    |       | B     | C | 1B |       |       |   |    |    |
| C6709            | B | C | 2A               | C6723               | B | C                | 2C             |               |                  |                     |   |                  |          | L6702 | A                | D     | 1C    |                |    |       |    |       | R6709 | B | C  | 3A    | K6702 | B | C  | 2B |
| C6710            | B | C | 3B               | C6724               | A | D                | 1C             |               |                  |                     |   |                  |          |       |                  |       | R6710 |                |    |       |    |       | B     | C | 4B | K6703 | B     | C | 3B |    |
| C6711            | B | C | 3B               |                     |   |                  |                |               |                  |                     |   |                  |          |       |                  |       | R6711 |                |    |       |    |       | B     | C | 4C | K6704 | B     | C | 3B |    |
| C6712            | B | C | 4B               | CONNECTOR<br>CN6701 |   |                  | A              | D             | 3A               | TRANSISTOR<br>Q6701 |   |                  | B        | C     | 1B               | R6712 | B     | C              | 3C | K6705 | B  | C     | 3B    |   |    |       |       |   |    |    |
| C6713            | B | C | 4C               |                     |   |                  |                |               |                  |                     |   |                  |          |       |                  | R6713 | B     | C              | 3C | K6706 | B  | C     | 3B    |   |    |       |       |   |    |    |

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| CAPACITOR |          |         |          |           |          | COIL       |          | RESISTOR |          |         |          |         |          |
| C301      | B C 7B   | C317    | B C 6B   | C4310     | B C 3B   |            |          | R315     | B C 7B   | R4310   | B C 4C   |         |          |
| C302      | A D 7C   | C318    | B C 6B   | C4311     | B C 4C   |            |          | R316     | B C 8B   | R4311   | B C 3B   |         |          |
| C303      | B C 7B   | C319    | A D 6A   | C4318     | B C 3B   | L301       | A D 6C   | R301     | B C 7B   | R321    | B C 7C   | R4312   | B C 3C   |
| C304      | B C 7B   | C320    | B C 8B   | C4319     | B C 3A   | L302       | A D 6C   | R302     | B C 7C   | R326    | B C 7B   | R4317   | B C 4B   |
| C305      | B C 6B   | C321    | B C 7B   |           |          | L303       | A D 6B   | R303     | B C 6B   | R327    | B C 7B   | R4318   | B C 3B   |
| C307      | B C 6B   | C322    | B C 6B   | CONNECTOR |          | L4301      | A D 3D   | R304     | B C 6C   | R328    | B C 7A   | R4319   | B C 4A   |
| C308      | B C 6B   | C323    | A D 7C   | CN301     | A D 5C   | L4302      | A D 2A   | R305     | B C 6C   | R329    | B C 7B   | R4320   | B C 2C   |
| C309      | B C 6B   | C4301   | B C 3C   | CN4302    | A D 4D   | TRANSISTOR |          | R306     | B C 6B   | R4301   | B C 2C   |         |          |
| C310      | B C 5B   | C4302   | A D 3A   |           |          |            |          | R307     | B C 5C   | R4302   | B C 2C   |         |          |
| C311      | B C 5B   | C4303   | B C 2C   | DIODE     |          | Q301       | B C 6C   | R308     | B C 5B   | R4303   | B C 2C   |         |          |
| C312      | B C 5B   | C4304   | B C 2B   | D4301     | A D 4B   | Q302       | B C 8C   | R309     | B C 5B   | R4304   | B C 2B   |         |          |
| C313      | A D 5B   | C4305   | B C 2B   |           |          | Q311       | B C 6C   | R310     | B C 6B   | R4305   | B C 2B   |         |          |
| C314      | B C 6B   | C4306   | B C 3B   | IC        |          | Q312       | B C 7C   | R311     | B C 6B   | R4306   | B C 3B   |         |          |
| C315      | A D 5A   | C4307   | B C 3C   | IC301     | A D 7B   | Q4301      | B C 2C   | R312     | B C 7A   | R4307   | B C 3B   |         |          |
| C316      | B C 6A   | C4308   | B C 3C   | IC4301    | B C 3C   | Q4302      | B C 2C   | R313     | B C 7B   | R4308   | B C 3C   |         |          |
|           |          | C4309   | B C 4C   | IC4304    | B C 3B   | Q4303      | B C 3C   | R314     | B C 7B   | R4309   | B C 4C   |         |          |

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LPB10249-001 C



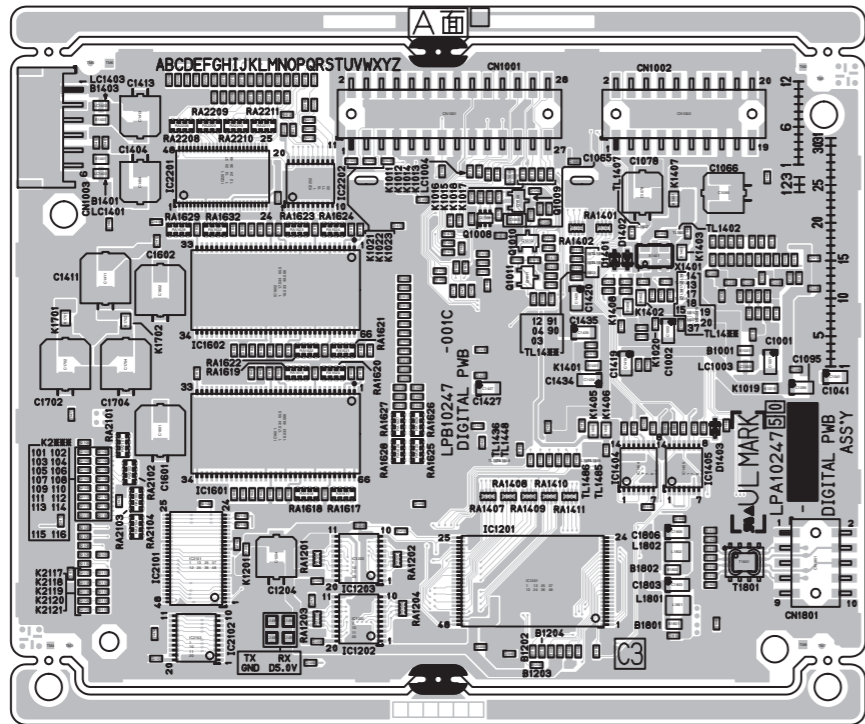
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| <b>CAPACITOR</b> |          | CN7002       | A D 9A   | D7035     | A D 10B  | IC7002            | A D 9B   | R7013   | A D 19B  | R7409        | B C 11C  | S7033   | A D 2F   |
| C7001            | B C 14B  |              |          | D7041     | A D 17C  |                   |          | R7014   | A D 19B  |              |          | S7034   | A D 2F   |
| C7002            | A D 16A  | <b>DIODE</b> |          | D7042     | A D 16C  | <b>TRANSISTOR</b> |          | R7015   | B C 10B  | <b>OTHER</b> |          |         | S7035    |
| C7003            | A D 7A   | D7001        | A D 20A  | D7043     | A D 13C  | Q7001             | B C 17B  | R7016   | A D 8B   | CM2          | B C 21P  |         |          |
| C7004            | B C 10B  | D7002        | A D 11A  | D7044     | A D 10C  | Q7002             | B C 17B  | R7021   | A D 16B  | FW7001       | A D 21B  |         |          |
| C7005            | A D 11B  | D7003        | A D 11A  | D7045     | A D 19B  | Q7003             | B C 11C  | R7022   | A D 16B  | L7001        | A D 17A  |         |          |
| C7006            | A D 8B   | D7004        | A D 11A  | D7046     | A D 14C  |                   |          | R7041   | A D 17B  | S7002        | A D 20B  |         |          |
| C7007            | A D 17A  | D7005        | A D 11A  | D7047     | A D 11C  | <b>RESISTOR</b>   |          | R7042   | A D 16B  | S7004        | A D 7B   |         |          |
| C7008            | A D 14B  | D7012        | A D 14A  | D7048     | A D 8B   | R7001             | A D 12C  | R7043   | A D 16B  | S7012        | A D 6B   |         |          |
| C7010            | B C 8A   | D7013        | A D 14A  | D7051     | B C 17C  | R7002             | A D 13C  | R7044   | B C 10C  | S7013        | A D 1B   |         |          |
| C7011            | B C 9A   | D7014        | A D 15A  | D7052     | B C 14C  | R7003             | A D 16B  | R7045   | B C 16B  | S7014        | A D 2B   |         |          |
| C7013            | B C 19C  | D7021        | A D 8A   | D7053     | B C 11C  | R7005             | A D 12B  | R7046   | A D 17B  | S7015        | A D 5B   |         |          |
| C7014            | B C 8B   | D7031        | A D 17B  | D7001     | A D 14B  | R7006             | A D 10B  | R7047   | B C 11C  | S7022        | A D 21B  |         |          |
|                  |          | D7032        | A D 17B  |           |          | R7007             | A D 12B  | R7048   | A D 9B   | S7023        | A D 4B   |         |          |
|                  |          | D7033        | A D 10B  | <b>IC</b> |          | R7009             | A D 11B  | R7053   | B C 19B  | S7024        | A D 6B   |         |          |
| <b>CONNECTOR</b> |          | CN7001       | A D 14A  | D7034     | A D 11B  | IC7001            | B C 15B  | R7010   | B C 8A   | R7054        | B C 8B   | S7032   | A D 11D  |

■ DIGITAL CIRCUIT BOARD

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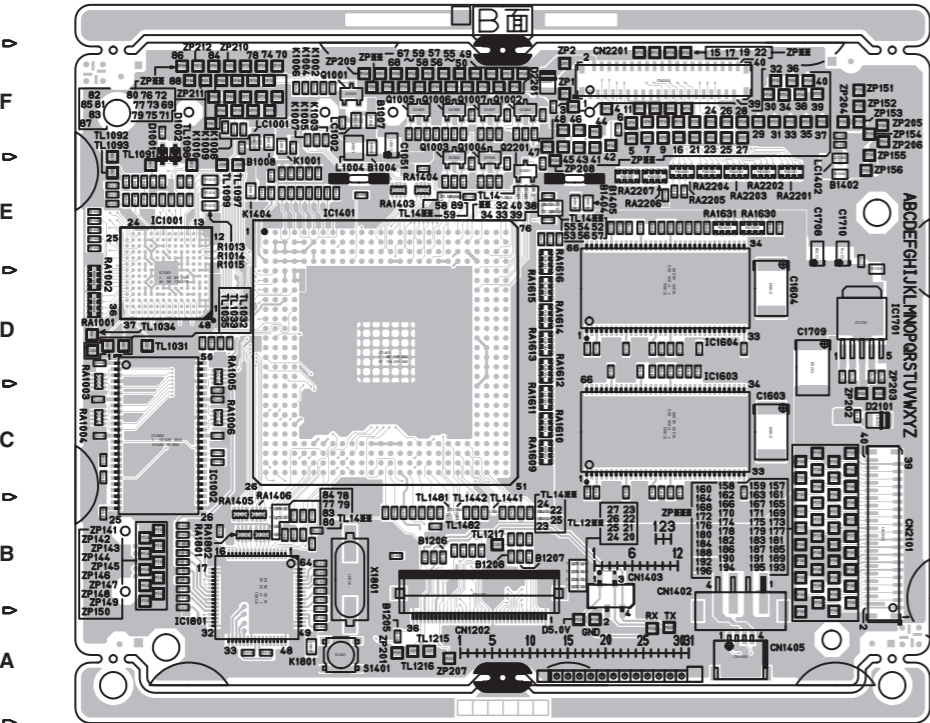
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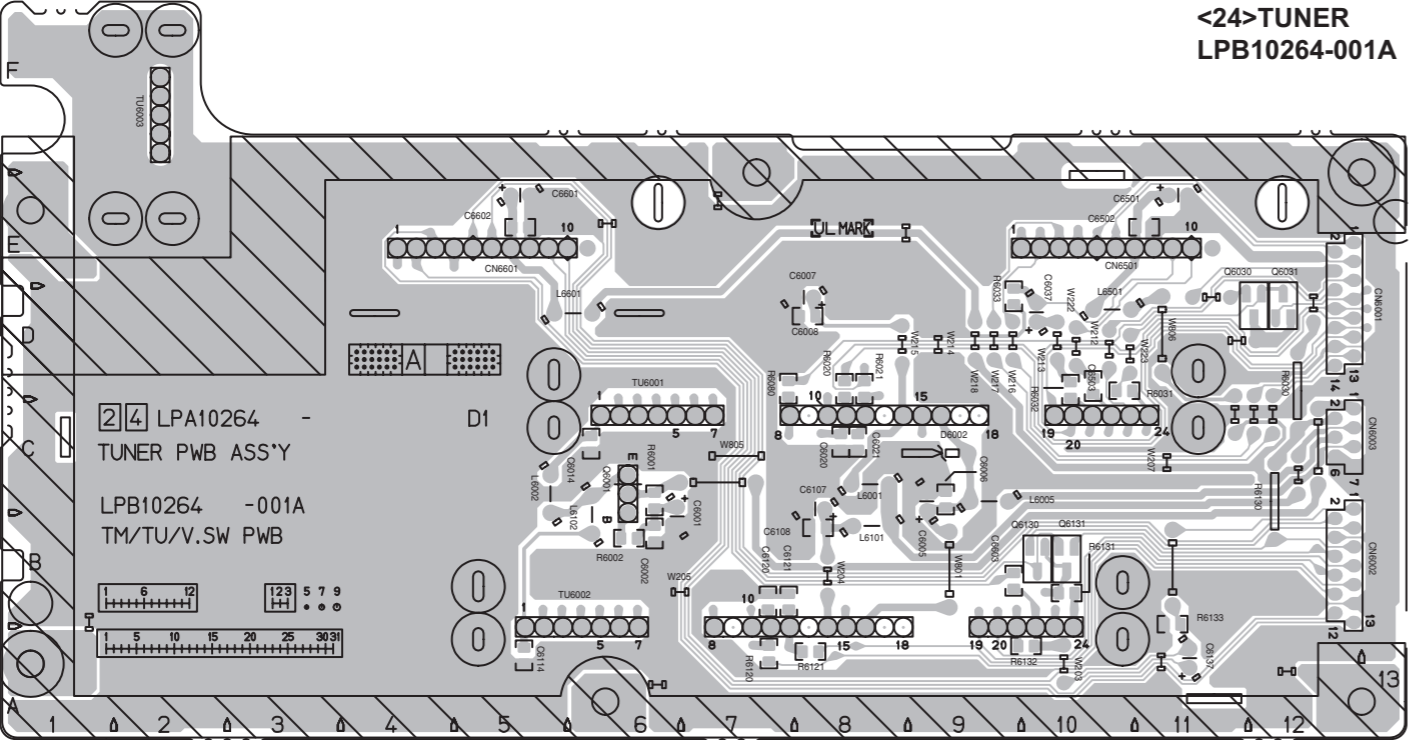


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COMPONENT PARTS LOCATION GUIDE <DIGITAL> LPB10247-001C

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| CAPACITOR |          |         |          | C1452      | A C 3D   | CN2101  | B C 8B   | R1219   | B C 4B   | R1628   | A C 6D   | K2103   | A C 7C   | TM6     | A C 7F   |
| C1001     | A C 1D   | C1453   | A C 3D   | CN2201     | B C 6F   | R1220   | B C 4B   | R1629   | B C 6D   | K2104   | A C 7C   | TM7     | A C 1A   |         |          |
| C1002     | A C 2D   | C1454   | A C 3D   |            |          | R1221   | B C 4B   | R1630   | B C 6D   | K2105   | A C 7C   | TM8     | A C 1A   |         |          |
| C1003     | A C 2D   | C1455   | A C 2D   | DIODE      |          | R1222   | A C 3A   | R1631   | B C 6E   | K2106   | A C 7C   | X1401   | A C 2E   |         |          |
| C1004     | A C 1D   | C1456   | A C 3D   | D1001      | B C 1F   | R1223   | A C 3A   | R1632   | B C 6E   | K2107   | A C 7C   | X1801   | B C 3B   |         |          |
| C1005     | A C 1E   | C1457   | A C 3C   | D1002      | B C 1F   | R1224   | A C 3A   | R1641   | A C 5C   | K2108   | A C 7C   |         |          |         |          |
| C1007     | A C 1E   | C1458   | A C 2C   | D1401      | A C 3E   | R1225   | A C 3A   | R1642   | A C 4C   | K2109   | A C 7C   |         |          |         |          |
| C1008     | A C 1E   | C1459   | B C 4B   | D1402      | A C 3E   | R1226   | A C 5B   | R1643   | B C 6D   | K2110   | A C 7C   |         |          |         |          |
| C1009     | A C 1E   | C1461   | A C 1E   | D1403      | A C 2C   | R1227   | B C 4B   | R1644   | A C 6E   | K2111   | A C 7C   |         |          |         |          |
| C1012     | A C 1E   | C1463   | A C 3D   | D2101      | B C 8C   | R1228   | B C 4B   | R1653   | A C 5D   | K2112   | A C 7C   |         |          |         |          |
| C1014     | A C 1D   | C1464   | B C 4E   | D2201      | B C 5F   | R1229   | B C 4B   | R1654   | A C 5D   | K2113   | A C 7B   |         |          |         |          |
| C1015     | A C 1E   | C1465   | A C 4E   |            |          | R1230   | B C 5B   | R1655   | A C 5D   | K2114   | A C 7B   |         |          |         |          |
| C1017     | B C 1E   | C1466   | B C 5F   | IC         |          | R1231   | B C 5B   | R1656   | A C 5D   | K2115   | A C 7B   |         |          |         |          |
| C1018     | B C 1E   | C1467   | A C 7E   | IC1001     | B C 1D   | R1401   | B C 2E   | R1657   | A C 5D   | K2116   | A C 7B   |         |          |         |          |
| C1019     | B C 1E   | C1468   | B C 3B   | IC1002     | B C 1C   | R1402   | A C 3E   | R1658   | A C 5D   | K2117   | A C 7B   |         |          |         |          |
| C1020     | A C 1D   | C1469   | A C 4B   | IC1201     | A C 3B   | R1403   | A C 2D   | R1659   | A C 5D   | K2118   | A C 7B   |         |          |         |          |
| C1022     | B C 1E   | C1470   | A C 7B   | IC1202     | A C 5A   | R1404   | A C 3E   | R1660   | A C 5D   | K2119   | A C 7B   |         |          |         |          |
| C1023     | B C 1E   | C1471   | A C 8C   | IC1203     | A C 5B   | R1405   | A C 3E   | R1701   | B C 8D   | K2120   | A C 7B   |         |          |         |          |
| C1026     | A C 1D   | C1472   | A C 8B   | IC1401     | B C 3D   | R1411   | A C 3E   | R1702   | B C 8D   | K2121   | A C 7B   |         |          |         |          |
| C1030     | A C 1D   | C1473   | A C 8B   | IC1404     | A C 3C   | R1412   | A C 3E   | R1703   | B C 5E   | K2201   | A C 7F   |         |          |         |          |
| C1032     | A C 1D   | C1474   | A C 7A   | IC1405     | A C 2C   | R1413   | A C 2D   | R1704   | B C 5E   | K2202   | A C 6F   |         |          |         |          |
| C1033     | A C 2D   | C1475   | A C 5B   | IC1601     | A C 6C   | R1414   | A C 4E   | R1705   | B C 8E   | K2203   | A C 6F   |         |          |         |          |
| C1034     | A C 1D   | C1601   | A C 7C   | IC1602     | A C 6D   | R1415   | B C 4E   | R1801   | B C 3B   | K2204   | A C 6F   |         |          |         |          |
| C1035     | A C 2D   | C1602   | A C 7D   | IC1603     | B C 6C   | R1416   | A C 4E   | R1802   | B C 3B   | K2205   | A C 6F   |         |          |         |          |
| C1036     | A C 2D   | C1603   | B C 7C   | IC1604     | B C 6D   | R1417   | A C 4D   | R1803   | B C 2B   | K2206   | A C 6F   |         |          |         |          |
| C1038     | A C 1D   | C1604   | B C 7D   | IC1701     | B C 7D   | R1419   | A C 3E   | R1804   | B C 2B   | K2207   | A C 6F   |         |          |         |          |
| C1039     | A C 2D   | C1605   | A C 5D   | IC1801     | B C 2B   | R1420   | A C 3E   | R1805   | B C 2B   | K2208   | A C 6F   |         |          |         |          |
| C1041     | A C 1D   | C1606   | A C 5D   | IC2101     | A C 6B   | R1421   | B C 2E   | R1806   | B C 1B   | K2209   | A C 6F   |         |          |         |          |
| C1042     | B C 1D   | C1607   | A C 6D   | IC2102     | A C 6A   | R1422   | B C 2E   | R1807   | B C 1B   | K2210   | A C 6F   |         |          |         |          |
| C1043     | B C 1C   | C1608   | A C 6C   | IC2201     | A C 6E   | R1423   | B C 2E   | R1808   | B C 1B   | K2211   | A C 6F   |         |          |         |          |
| C1044     | B C 1C   | C1609   | A C 5C   | IC2202     | A C 5E   | R1424   | B C 3E   | R1809   | B C 1B   | K2212   | A C 6F   |         |          |         |          |
| C1045     | B C 1B   | C1610   | A C 5D   |            |          | R1425   | B C 3E   | R1810   | B C 1B   | K2213   | A C 6F   |         |          |         |          |
| C1046     | B C 2C   | C1611   | A C 6D   | COIL       |          | R1426   | B C 3E   | R1811   | B C 1B   | K2214   | A C 6F   |         |          |         |          |
| C1047     | B C 2C   | C1612   | A C 6D   | L1004      | B C 3F   | R1427   | A C 2D   | R1812   | B C 1B   | K2215   | A C 6F   |         |          |         |          |
| C1048     | B C 3F   | C1613   | A C 5E   | L1801      | A C 2B   | R1428   | B C 2D   | R1813   | A C 2B   | K2216   | A C 6F   |         |          |         |          |
| C1049     | B C 1F   | C1614   | A C 5E   | L1802      | A C 2B   | R1429   | B C 2D   | R1814   | A C 2B   | K2217   | A C 6F   |         |          |         |          |
| C1050     | B C 1E   | C1615   | A C 6E   |            |          | R1430   | B C 2D   | R1815   | A C 2B   | K2218   | A C 5F   |         |          |         |          |
| C1051     | B C 3F   | C1616   | A C 6D   | TRANSISTOR |          | R1431   | B C 2D   | R1816   | A C 2B   | K2219   | A C 5F   |         |          |         |          |
| C1052     | A C 4E   | C1617   | A C 5D   | Q1001      | B C 3F   | R1432   | B C 3B   | R1817   | A C 2B   | K2220   | A C 5F   |         |          |         |          |
| C1053     | A C 4E   | C1618   | A C 5E   | Q1002      | B C 4F   | R1433   | B C 4B   | R1818   | B C 2A   | K2221   | A C 5F   |         |          |         |          |
| C1058     | A C 2D   | C1619   | A C 6E   | Q1003      | B C 4E   | R1434   | B C 5B   | R1819   | B C 2A   | LC1001  | B C 2F   |         |          |         |          |
| C1060     | A C 2D   | C1620   | A C 6E   | Q1004      | B C 4E   | R1436   | B C 4B   | R1820   | B C 3A   | LC1002  | B C 3D   |         |          |         |          |
| C1062     | A C 2E   | C1621   | B C 5C   | Q1005      | B C 4F   | R1437   | B C 4B   | R1821   | B C 1B   | LC1003  | A C 2F   |         |          |         |          |
| C1063     | A C 3E   | C1622   | B C 5C   | Q1006      | B C 4F   | R1438   | B C 4B   | R1822   | B C 3B   | LC1004  | A C 4E   |         |          |         |          |
| C1065     | A C 4E   | C1623   | B C 6C   | Q1007      | B C 4F   | R1439   | B C 4B   | R1821   | A C 6B   | LC1401  | A C 7E   |         |          |         |          |
| C1066     | A C 2E   | C1624   | B C 5D   | Q1008      | A C 4E   | R1440   | A C 4C   | R12103  | A C 6B   | LC1402  | B C 7E   |         |          |         |          |
| C1067     | B C 2F   | C1625   | B C 5D   | Q1009      | A C 4E   | R1441   | A C 2C   | R2103   | A C 6B   | LC1403  | A C 7F   |         |          |         |          |
| C1069     | B C 3F   | C1626   | B C 5C   | Q1010      | A C 3E   | R1443   | A C 2C   | R2104   | A C 7C   | RA1001  | B C 1D   |         |          |         |          |
| C1070     | B C 4F   | C1627   | B C 6C   | Q1011      | A C 3D   | R1444   | A C 2C   | R2105   | A C 7B   | RA1002  | B C 1D   |         |          |         |          |
| C1071     | B C 4E   | C1628   | B C 6C   | Q2201      | B C 4E   | R1445   | A C 3C   | R2106   | A C 7B   | RA1003  | B C 1D   |         |          |         |          |
| C1072     | B C 4E   | C1629   | B C 5D   | R1001      | B C 1E   | R1446   | A C 2C   | R2107   | A C 7B   | RA1004  | B C 1C   |         |          |         |          |
| C1073     | B C 3F   | C1630   | B C 5D   | R1002      | B C 1E   | R1447   | A C 2C   | R2108   | A C 7B   | RA1005  | B C 2D   |         |          |         |          |
| C1074     | B C 4F   | C1631   | B C 6D   | R1003      | B C 1E   | R1448   | A C 2C   | R2109   | A C 7B   | RA1006  | B C 2C   |         |          |         |          |
| C1075     | B C 4F   | C1632   | B C 5E   | R1004      | B C 1E   | R1449   | A C 2B   | R2110   | A C 7B   | RA1201  | A C 5B   |         |          |         |          |
| C1076     | A C 4E   | C1633   | B C 5E   | R1005      | B C 1E   | R1450   | B C 3B   | R2111   | A C 7B   | RA1202  | A C 5B   |         |          |         |          |
| C1077     | A C 4E   | C1634   | B C 5D   | R1006      | B C 1E   | R1451   | B C 2B   | R2112   | A C 7B   | RA1203  | A C 5A   |         |          |         |          |
| C1078     | A C 2E   | C1635   | B C 6D   | R1007      | B C 1E   | R1452   | B C 3B   | R2113   | A C 7B   | RA1204  | A C 5B   |         |          |         |          |
| C1079     | B C 2F   | C1636   | B C 6D   | R1009      | B C 1E   | R1453   | B C 4B   | R2114   | A C 7B   | RA1401  | A C 3E   |         |          |         |          |
| C1080     | A C 2A   | C1641   | A C 6D   | R1010      | A C 1D   | R1458   | A C 3C   | R2115   | A C 7B   | RA1402  | A C 3E   |         |          |         |          |
| C1081     | A C 4A   | C1642   | A C 6D   | R1012      | B C 1E   | R1459   | A C 3C   | R2116   | B C 7C   | RA1403  | B C 3E   |         |          |         |          |
| C1082     | A C 5A   | C1643   | A C 5D   | R1013      | B C 2E   | R1460   | B C 3B   | R2201   | B C 6E   | RA1404  | B C 4E   |         |          |         |          |
| C1083     | A C 3E   | C1644   | A C 5D   | R1014      | B C 2E   | R1461   | A C 3C   | R2202   | B C 6E   | RA1405  | B C 2B   |         |          |         |          |
| C1088     | B C 2C   | C1645   | B C 7E   | R1015      | B C 2E   | R1462   | B C 3B   | R2203   | B C 6E   | RA1406  | B C 2B   |         |          |         |          |
| C1090     | A C 1E   | C1646   | B C 7E   | R1017      | B C 2E   | R1465   | B C 3B   | R2204   | A C 7F   | RA1407  | A C 4C   |         |          |         |          |
| C1091     | A C 1E   | C1649   | A C 6C   | R1018      | B C 1E   | R1466   | A C 3C   | R2205   | A C 6F   | RA1408  | A C 4C   |         |          |         |          |
| C1092     | A C 2E   | C1650   | A C 6C   | R1019      | B C 1E   | R1467   | A C 3C   | R2206   | A C 6F   | RA1409  | A C 3C   |         |          |         |          |
| C1093     | A C 2E   | C1651   | A C 6D   | R1020      | B C 1E   | R1468   | A C 3C   | R2207   | A C 6F   | RA1410  | A C 3C   |         |          |         |          |
| C1094     | A C 2E   | C1652   | A C 6D   | R1021      | A C 1D   | R1469   | B C 3E   | R2208   | A C 6F   | RA1411  | A C 3C   |         |          |         |          |
| C1095     | A C 1C   | C1653   | B C 5E   | R1022      | A C 1D   | R1470   | B C 4B   | R2209   | A C 6F   | RA1609  | B C 5C   |         |          |         |          |
| C1096     | A C 1D   | C1654   | A C 4E   | R1024      | A C 2D   | R1471   | B C 3B   | R2210   | A C 6F   | RA1610  | B C 5C   |         |          |         |          |
| C1097     | A C 3E   | C1655   | A C 6C   | R1027      | A C 2E   | R1472   | B C 4B   | R2211   | A C 6F   | RA1611  | B C 5C   |         |          |         |          |
| C1098     | A C 3D   | C1656   | A C 6C   | R1028      | A C 2E   | R1473   | B C 4D   | R2212   | A C 6F   | RA1612  | B C 5D   |         |          |         |          |
| C1203     | A C 4A   | C1657   | A C 6D   | R1029      | B C 2E   | R1474   | A C 4E   | R2213   | A C 5F   | RA1613  | B C 5D   |         |          |         |          |
| C1204     | A C 6B   | C1658   | A C 6D   | R1030      | B C 1C   | R1475   | A C 4E   | R2214   | A C 5F   | RA1614  | B C 5D   |         |          |         |          |
| C1206     | A C 5A   | C1659   | B C 6D   | R1031      | B C 1C   | R1476   | A C 4E   | R2215   | A C 5F   | RA1615  | B C 5D   |         |          |         |          |
| C1207     | A C 5B   | C1660   | B C 6D   | R1032      | B C 2C   | R1477   | A C 4E   | R2216   | B C 5F   | RA1616  | B C 5E   |         |          |         |          |
| C1208     | B C 4B   | C1661   | B C 6E   | R1033      | B C 2C   | R1478   | A C 4E   | R2217   | B C 5E   | RA1617  | A C 5C   |         |          |         |          |
| C1401     | A C 7F   | C1662   | B C 6E   | R1034      | B C 3F   | R1479   | A C 4D   |         |          | RA1618  | A C 5C   |         |          |         |          |
| C1402     | A C 7F   | C1701   | B C 7D   | R1035      | B C 5F   | R1480   | A C 4E   | OTHER   |          |         |          |         |          |         |          |
| C1404     | A C 7E   | C1702   | A C 8D   | R1036      | B C 5F   | R1481   | A C 4D   | K1001   | B C 2F   | RA1620  | A C 6D   |         |          |         |          |
| C1405     | A C 2D   | C1703   | B C 7D   | R1037      | B C 4F   | R1482   | A C 4E   | K1002   | B C 3F   | RA1621  | A C 5D   |         |          |         |          |
| C1406     | A C 4C   | C1704   | A C 7D   | R1038      | B C 4E   | R1483   | A C 4E   | K1003   | B C 3F   | RA1622  | A C 5D   |         |          |         |          |
| C1408     | B C 7F   | C1705   | B C 5E   | R1039      | B C 4E   | R1485   | B C 2E   | K1004   | B C 3F   | RA1623  | A C 6E   |         |          |         |          |
| C1409     | B C 7F   | C1706   | B C 5E   | R1040      | B C 4E   | R1486   | B C 2E   | K1005   | B C 3F   | RA1624  | A C 5E   |         |          |         |          |
| C1411     | A C 7D   | C1707   | B C 7E   | R1041      | B C 4E   | R1487   | B C 2E   | K1006   | B C 2F   | RA1625  | A C 4C   |         |          |         |          |

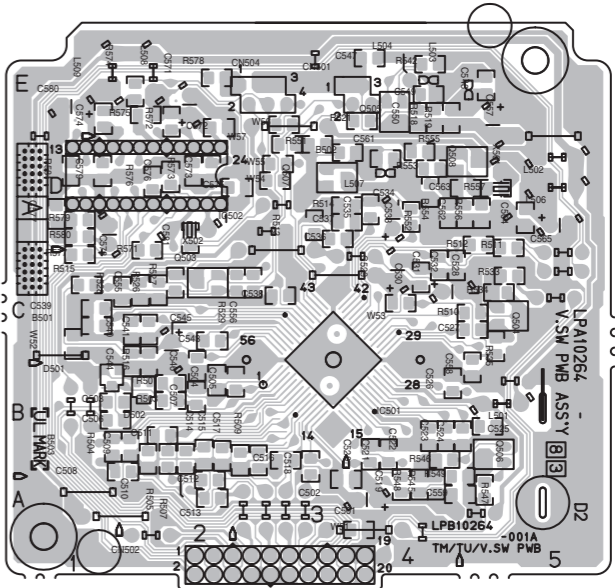
VIDEO SW,TUNER AND TERMINAL CIRCUIT BOARDS



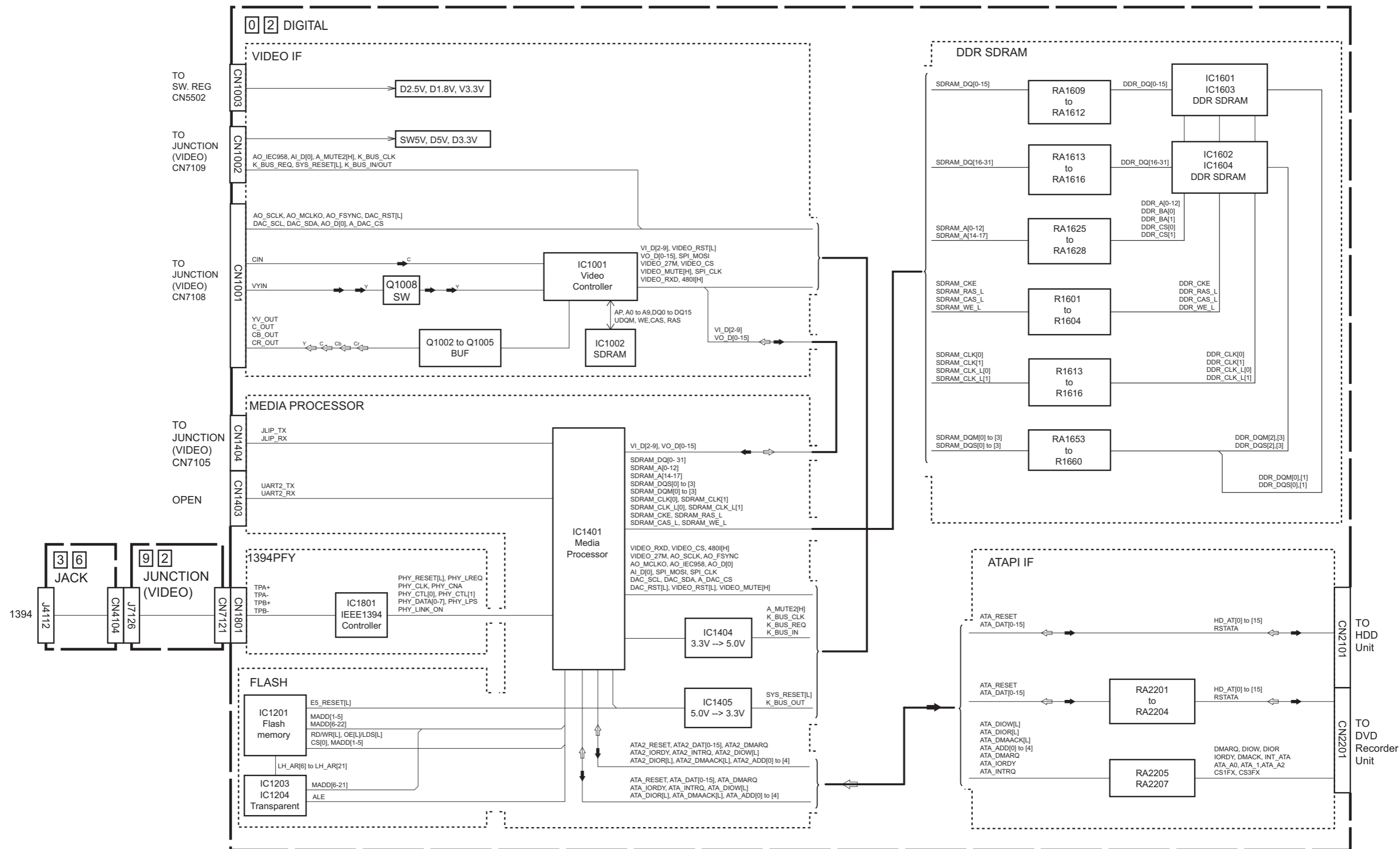
COMPONENT PARTS LOCATION GUIDE <TUNER> LPB10264-001A

| REF.NO.   | LOCATION | REF.NO.   | LOCATION | REF.NO. | LOCATION | REF.NO.    | LOCATION | REF.NO. | LOCATION | REF.NO. | LOCATION |
|-----------|----------|-----------|----------|---------|----------|------------|----------|---------|----------|---------|----------|
| CAPACITOR |          |           |          |         |          |            |          |         |          |         |          |
| C6001     | A D 6C   | C6114     | B C 5A   | CN6002  | A D 12C  | L6102      | A D 6B   | R6002   | B C 6B   | R6133   | B C 11B  |
| C6002     | B C 6B   | C6120     | B C 7B   | CN6003  | A D 12C  | L6501      | A D 10D  | R6020   | B C 8D   | OTHER   |          |
| C6005     | A D 9C   | C6137     | A D 7B   | CN6501  | A D 10E  | L6601      | A D 5D   | R6021   | B C 8D   |         |          |
| C6006     | B C 9C   | C6501     | A D 11E  | CN6601  | A D 4E   | TRANSISTOR |          | R6030   | A D 12C  | TU6001  | A D 5D   |
| C6007     | A D 8D   | C6502     | B C 11E  | DIODE   |          |            |          | Q6001   | A D 6C   | R6031   | B C 10D  |
| C6008     | B C 8D   | C6503     | B C 10D  |         |          | D6002      | A D 8C   | Q6030   | B C 12D  | R6032   | B C 10D  |
| C6014     | B C 6C   | C6601     | A D 5E   | COIL    |          | Q6031      | B C 12D  | R6033   | B C 9D   |         |          |
| C6020     | B C 8C   | C6602     | B C 5E   |         |          | L60130     | B C 10B  | R6120   | B C 7A   |         |          |
| C6021     | B C 8C   | C6603     | B C 9B   | L6001   | A D 8C   | Q6131      | B C 10B  | R6121   | B C 8A   |         |          |
| C6037     | A D 10D  | CONNECTOR |          | L6002   | A D 5C   | RESISTOR   |          | R6130   | A D 12C  |         |          |
| C6107     | A D 8C   |           |          | L6005   | A D 9C   |            |          | R6131   | B C 10B  |         |          |
| C6108     | B C 8B   | CN6001    | A D 12E  | L6101   | A D 8B   | R6001      | B C 6C   | R6132   | B C 10A  |         |          |

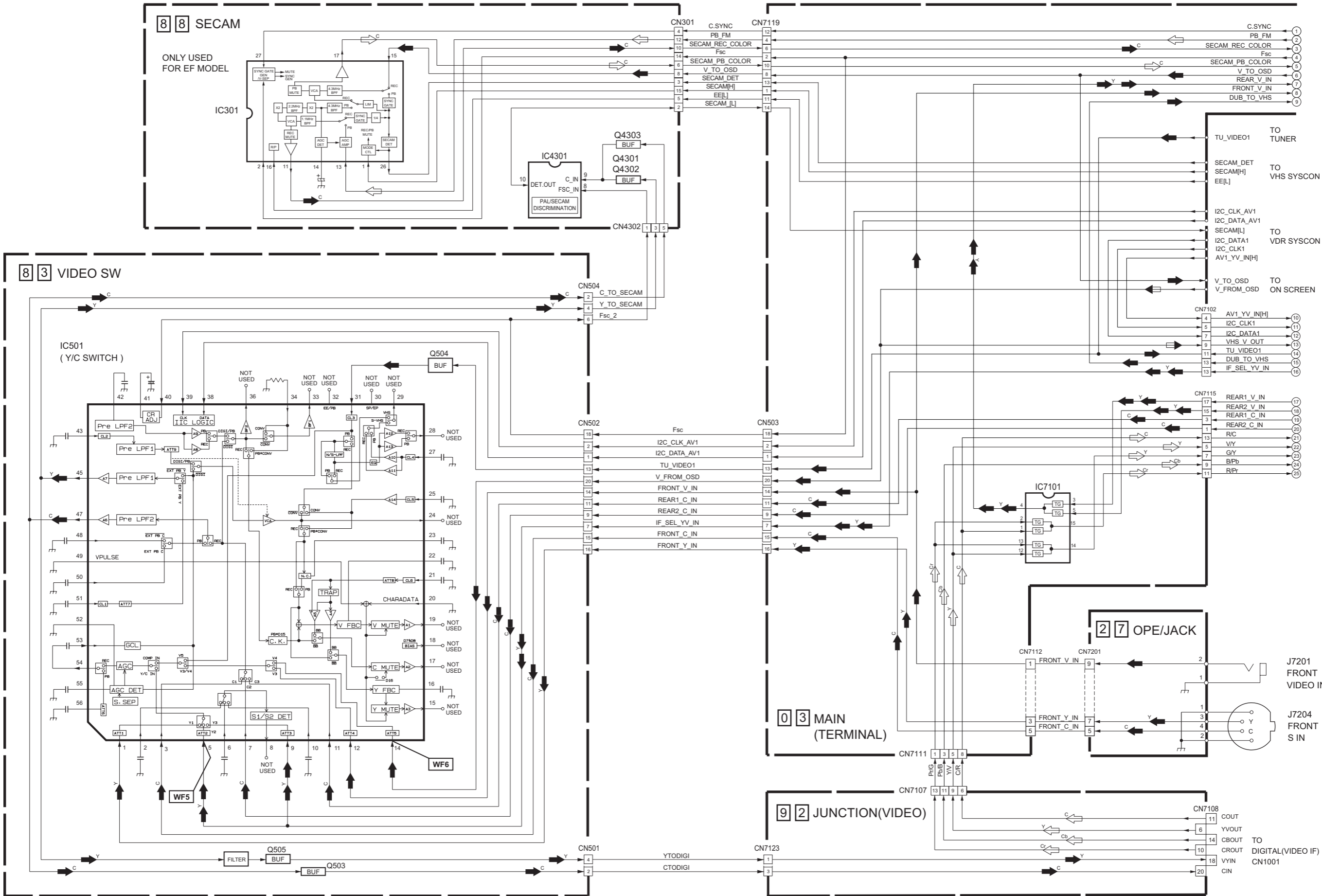
<83>VIDEO SW  
LPB10264-001A



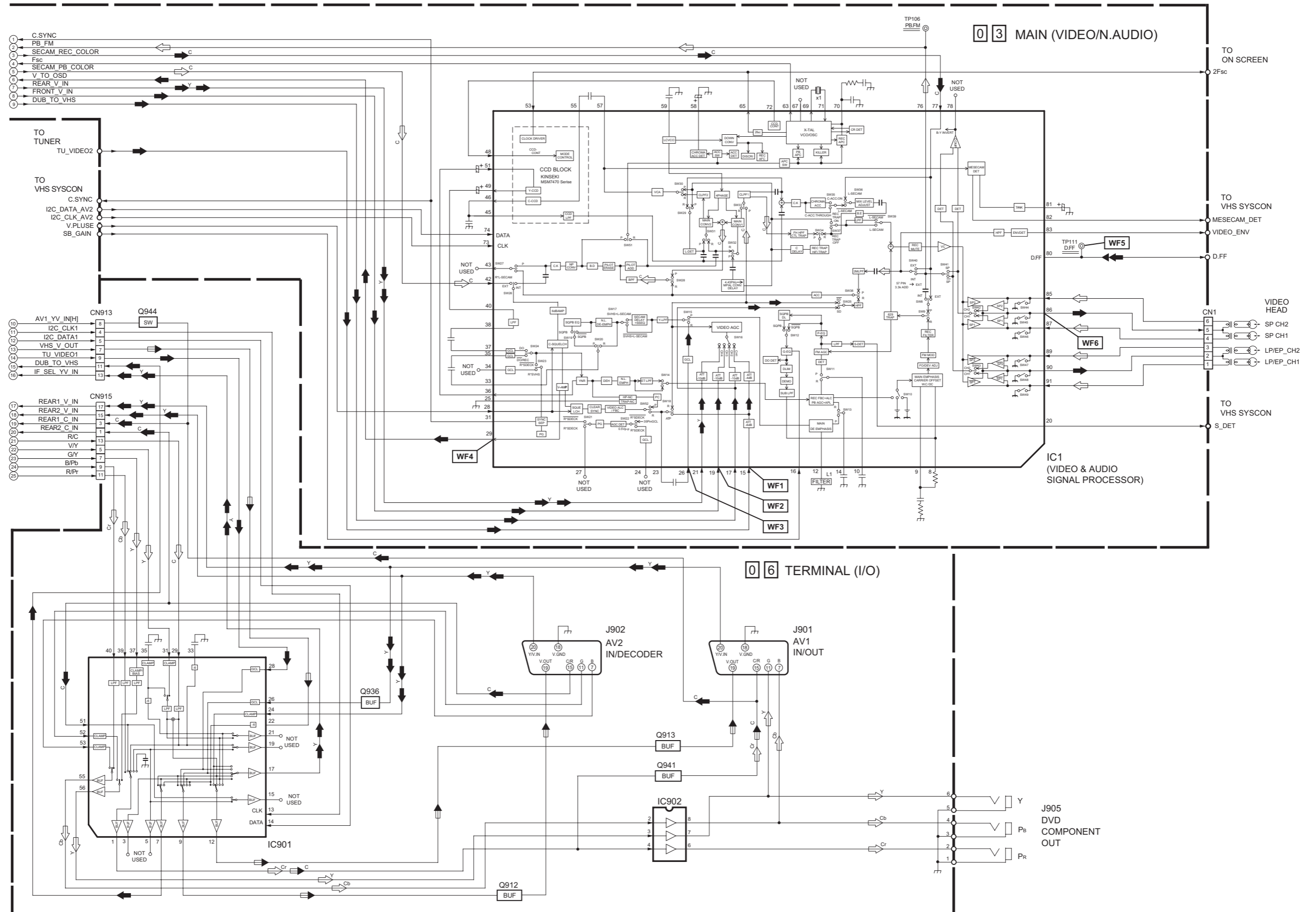
DIGITAL BLOCK DIAGRAM



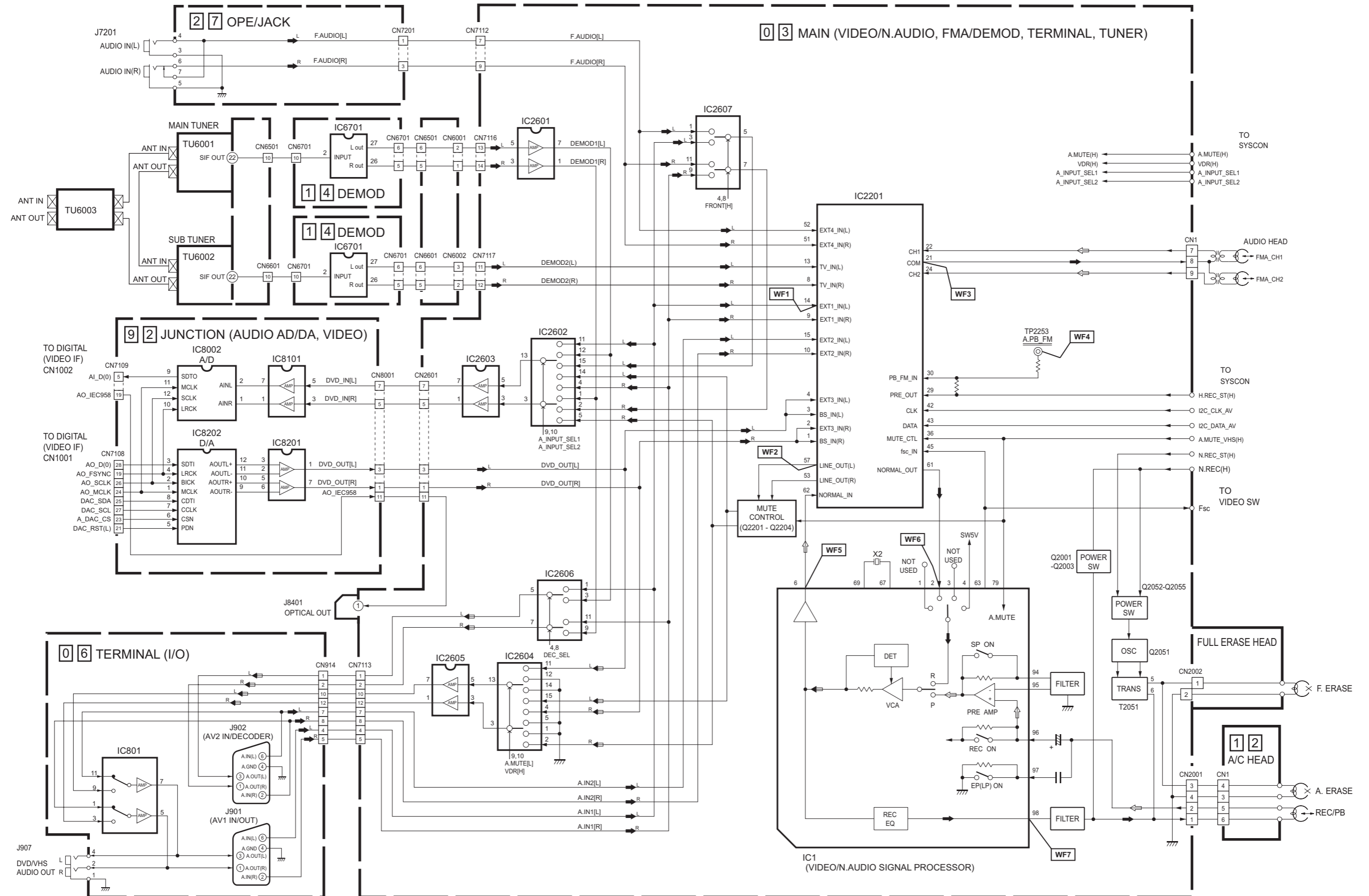
VIDEO BLOCK DIAGRAM (1)



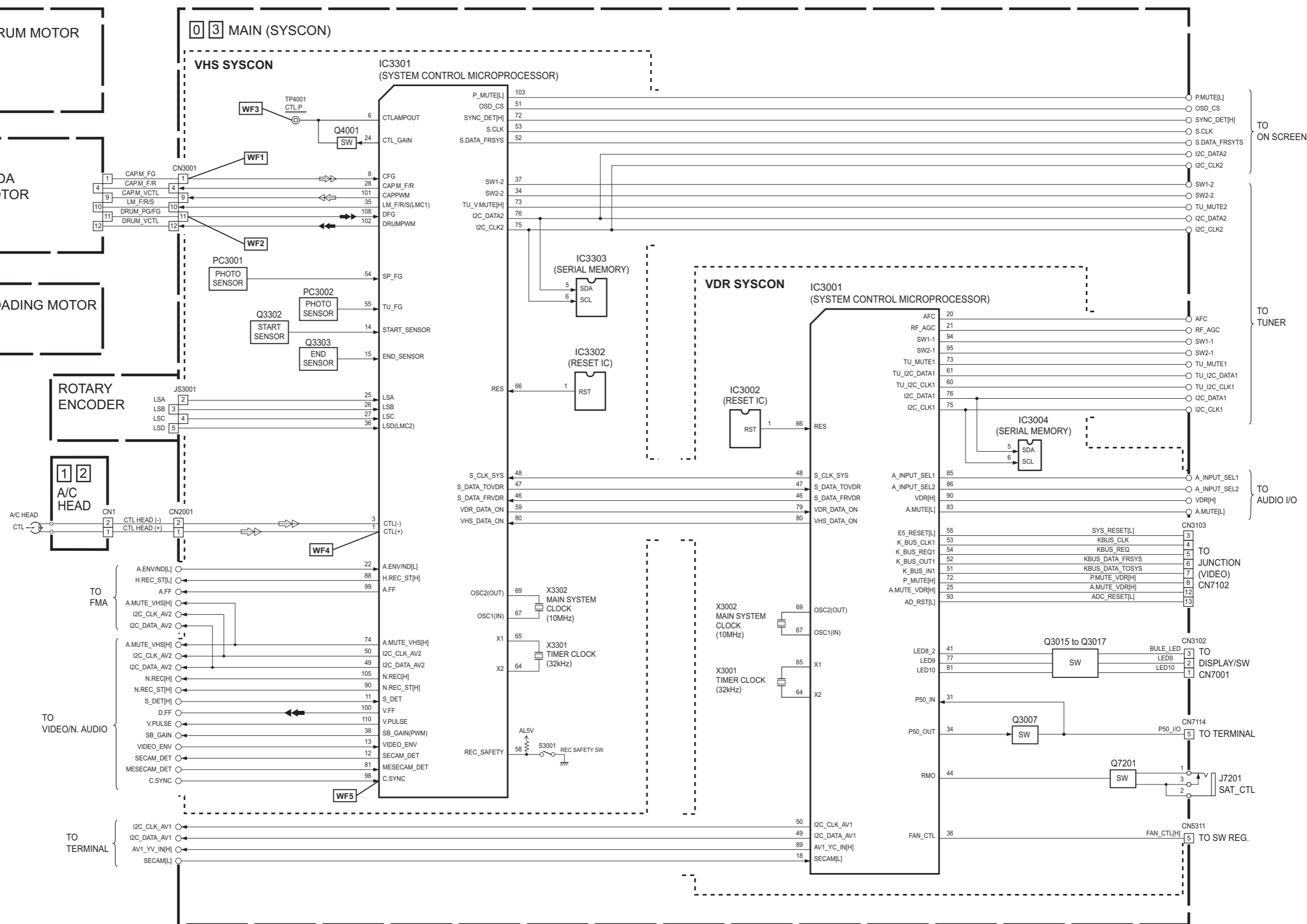
## ■ VIDEO BLOCK DIAGRAM (2)



■ AUDIO BLOCK DIAGRAM



### ■ SYSTEM CONTROL BLOCK DIAGRAM



■ CPU PIN FUNCTION

<VHS SYSCON IC3301>

| PIN NO. | LABEL            | IN/OUT | FUNCTION   |
|---------|------------------|--------|--|
| 1       | CTL[+]           | IN/OUT | CTL(+) SIGNAL  |
| 2       | SVss             | -      | GND  |
| 3       | CTL[-]           | IN/OUT | CTL(-) SIGNAL  |
| 4       | CTLBIAS          | -      | CTL BIAS VOLTAGE   |
| 5       | CTLFB            | IN     | CTL PULSE FEEDBACK   |
| 6       | CTLAMPOUT        | OUT    | CTL PULSE OUTPUT   |
| 7       | CTLSMTIN         | IN     | CTL PULSE OUTPUT   |
| 8       | CFG              | IN     | CAPSTAN FG PULSE INPUT   |
| 9       | SVcc             | -      | SYSTEM POWER   |
| 10      | Avcc             | -      | SYSTEM POWER   |
| 11      | NORM/MESEC/S_DET | IN     | SQPB:H/MESECAM:M/NORMAL:L  |
| 12      | SECAN_DET        | IN     | SECAN MODE DETECT  |
| 13      | VIDEO_ENV        | IN     | AUTO TRACKING DETECT/INPUT THE AVERAG OF PLAYBACK VIDEO SIGNAL   |
| 14      | START_SENSOR     | IN     | START SENSOR   |
| 15      | END_SENSOR       | IN     | END SENSOR   |
| 16      | NC               | -      | NOT USED   |
| 17      | PROTECT          | IN     | DETECTION SIGNAL FOR SWITCHING POWERSUPPLY                       |
| 18      | TEST             | -      | NOT USED   |
| 19      | NC               | -      | NOT USED   |
| 20      | NC               | -      | NOT USED   |
| 21      | NC               | -      | NOT USED   |
| 22      | A.ENV/ND[L]      | IN     | AUDIO PB FM ENV.INPUT/NON HiFi MODE:L                            |
| 23      | Avss             | -      | GND  |
| 24      | CTL_GAIN/TEST    | OUT    | CONTROL AMP OUT FREQUENCY RESPONSE SWITCHIN                      |
| 25      | LSA              | IN     | MECHANISM MODE DETECT (A)  |
| 26      | LSB              | IN     | MECHANISM MODE DETECT (B)  |
| 27      | LSC              | IN     | MECHANISM MODE DETECT(C)   |
| 28      | CAP.M_F/R        | OUT    | CAPSTAN MOTOR REVERSE CONTROL (FWD:L/REV:H)                      |
| 29      | NC               | -      | NOT USED   |
| 30      | VHS_AV1[H]       | OUT    | VHS_AV1 MODE : H   |
| 31      | NC               | -      | NOT USED   |
| 32      | NC               | -      | NOT USED   |
| 33      | NC               | -      | NOT USED   |
| 34      | SW2-2            | OUT    | TV RF SYSTEM SELECT  |
| 35      | LM_F/R/[LMC1]    | OUT    | LOADING MOTOR DRIVE  |
| 36      | LSD[LMC2]        | IN     | MECHANISM MODE DETECT (D)  |
| 37      | SW1-2            | OUT    | TV RF SYSTEM SELECT  |
| 38      | SB_GAIN[PWM]     | OUT    | VOLTAGE CONTROL SIGNAL FOR VIDEO FREQUENCY RESPONSE              |
| 39      | NC               | -      | NOT USED   |
| 40      | POWER_DET        | IN     | DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY               |
| 41      | NC               | -      | NOT USED   |
| 42      | P.SAVE[L]        | OUT    | POWER SAVE MODE : L  |
| 43      | Vss              | -      | GND  |
| 44      | NC               | -      | NOT USED   |
| 45      | Vcc              | -      | SYSTEM POWER   |
| 46      | S_DATA_FRVDR     | OUT    | SERIAL DATA TRANSFER OUTPUT FROM THE THE VDR SYSCON CPU          |
| 47      | S_DATA_TOVDR     | IN     | SERIAL DATA TRANSFER OUTPUT TO THE VDR SYSCON CPU                |
| 48      | S_CLK_SYS        | OUT    | SERIAL DATA TRANSFER CLOCK FOR VDR SYSCON CPU                    |
| 49      | 12C_DATA_AV2     | IN/OUT | SERIAL DATA TRANSFER OUTPUT FOR A/V IC                           |
| 50      | 12C_CLK_AV2      | OUT    | SERIAL DATA TRANSFER CLOCK FOR A/V IC                            |
| 51      | OSD_CS           | OUT    | ON-SCREEN IC CHIP SELECT   |
| 52      | S.DATA_FRSYS     | OUT    | SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO THE ON-SCREEN |
| 53      | S.CLK            | OUT    | SERIAL DATA TRANSFERMER CLOCKFOR ONSCREEN IC                     |
| 54      | SP_FG            | IN     | DETECTION SIGNAL FOR SUPPLY REEL ROTATION/TAPE REMAIN            |
| 55      | TU_FG            | IN     | DETECTION SIGNAL TAKE-UP REEL ROTATION/TAPE REMAIN               |
| 56      | NC               | -      | NOT USED   |

| PIN NO. | LABEL         | IN/OUT | FUNCTION  |
|---------|---------------|--------|---|
| 57      | NC            | -      | NOT USED  |
| 58      | REC_SAFTY     | IN     | REC SAFETY SWITCH DETECT (SW ON:L)                                      |
| 59      | VDR_DATA_ON   | OUT    | SERIAL DATA TRANSFER REQUEST TO VDR SYSCON CPU                          |
| 60      | NC            | -      | NOT USED  |
| 61      | NC            | -      | NOT USED  |
| 62      | FWE           | -      | FLASH WRITE ENABLE  |
| 63      | NMI           | -      | NOT USED  |
| 64      | X2            | -      | TIMER CLOCK(32kHz)  |
| 65      | X1            | -      | TIMER CLOCK(32kHz)  |
| 66      | RES           | -      | RESET TERMINAL(RESET ON:L)  |
| 67      | OSC1[IN]      | IN     | MAIN SYSTEM CLOCK(10MHz)  |
| 68      | Vss           | -      | GND   |
| 69      | OSC2[OUT]     | IN     | MAIN SYSTEM CLOCK(10MHz)  |
| 70      | Vcc           | -      | SYSTEM POWER  |
| 71      | MODE          | -      | NOT USED  |
| 72      | SYNC_DET[H]   | IN     | DETECTION OF VIDEO SYNC SIGNAL (DETECTED : H)                           |
| 73      | TU_V.MUTE[H]  | OUT    | TUNER VIDEO SIGNAL MUTE : H   |
| 74      | A.MUTE_VHS[H] | OUT    | AUDIO MUTE CONTROL FOR VHS(MUTE:H)                                      |
| 75      | 12C_CLK2      | OUT    | SERIAL DATA TRANSFER CLOCK FOR MEMORY IC                                |
| 76      | 12C_DATA2     | IN/OUT | SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC                               |
| 77      | SECAN[H]      | IN     | SECAN MODE :H   |
| 78      | P.ON_PULSE    | OUT    | POWER ON/OFF PULSE OUTPUT   |
| 79      | PAL_PB[H]     | IN     | PAL FM (PB ON:H)  |
| 80      | VHS_DATA_ON   | IN     | SERIAL DATA TRANSFER REQUEST TO VHS SYSCON CPU                          |
| 81      | MESECAN_DET   | OUT    | MESECAM:H   |
| 82      | Vcc           | -      | SYSTEM POWER  |
| 83      | NC            | -      | NOT USED  |
| 84      | Vss           | -      | GND   |
| 85      | SP_SHORT[H]   | OUT    | MODE SELECT   |
| 86      | LP_SHORT[H]   | OUT    | MODE SELECT   |
| 87      | NC            | -      | NOT USED  |
| 88      | H.REC_ST[H]   | OUT    | HiFi AUDIO SOUND RECORDING START  |
| 89      | NC            | -      | NOT USED  |
| 90      | N.REC_ST[H]   | OUT    | NORMAL AUDIO SOUND RECORDINGSTART                                       |
| 91      | NC            | -      | NOT USED  |
| 92      | NC            | -      | NOT USED  |
| 93      | NC            | -      | NOT USED  |
| 94      | NC            | -      | NOT USED  |
| 95      | NC            | -      | NOT USED  |
| 96      | NC            | -      | NOT USED  |
| 97      | NC            | -      | NOT USED  |
| 98      | C.SYNC        | IN     | COMPOSITE SYNC INPUT  |
| 99      | A.FF          | OUT    | AUDIO FF OUTPUT   |
| 100     | V.FF          | OUT    | ROTATION DETECTION SIGNAL FOR DRUM MOTOR/ TIMING CONTROL SIGNAL FOR REC |
| 101     | CAPPWM        | OUT    | CAPSTAN MOTOR CONTROL   |
| 102     | DRUMPWM       | OUT    | DRUM MOTOR CONTROL  |
| 103     | P.MUTE[L]     | OUT    | PICTURE MUTE CONTROL (MUTE ON : L)                                      |
| 104     | NC            | -      | NOT USED  |
| 105     | N_REC[H]      | OUT    | NORMAL AUDIO REC MODE CONTROL SIGNAL (REC:H)                            |
| 106     | NC            | -      | NOT USED  |
| 107     | EE[L]         | OUT    | EE MODE:L   |
| 108     | DFG           | IN     | DRUM FG PULSE INPUT   |
| 109     | Vcc           | -      | SYSTEM POWER  |
| 110     | V.PULSE       | OUT    | V.PULSE ADDITION TIMING CONTROL   |
| 111     | Vss           | -      | GND   |
| 112     | CTLREF        | -      | CTL REFERENCE VOLTAGE   |

■ CPU PIN FUNCTION

<VDR SYSCON IC3001>

| PIN NO. | LABEL              | IN/OUT | FUNCTION  |
|---------|--------------------|--------|---|
| 1       | NC                 | -      | NOT USED  |
| 2       | SVss               | -      | GND   |
| 3       | NC                 | -      | NOT USED  |
| 4       | NC                 | -      | NOT USED  |
| 5       | NC                 | -      | NOT USED  |
| 6       | NC                 | -      | NOT USED  |
| 7       | NC                 | -      | NOT USED  |
| 8       | NC                 | -      | NOT USED  |
| 9       | SVcc               | -      | SYSTEM POWER  |
| 10      | Avcc               | -      | SYSTEM POWER  |
| 11      | NC                 | -      | NOT USED  |
| 12      | NC                 | -      | NOT USED  |
| 13      | NC                 | -      | NOT USED  |
| 14      | NC                 | -      | NOT USED  |
| 15      | NC                 | -      | NOT USED  |
| 16      | NC                 | -      | NOT USED  |
| 17      | TEST               | -      | NOT USED  |
| 18      | SECAM[L]           | IN     | SECAM MODE : L  |
| 19      | NC                 | -      | NOT USED  |
| 20      | AFC1               | OUT    | TUNING CHECK  |
| 21      | RF_AGC             | IN     | CHANGES IN ATS+IC OUTPUT AS CAUSED BY CHANGES IN RECEIVER SENSITIVITY WHEN RHE SAME CHANNEL IS RECEIVED MORE ARE INPUT. |
| 22      | SCR_ID             | IN     | SCRAMBLE CONTROL INPUT (SCRAMBLE : H)   |
| 23      | Avss               | -      | GND   |
| 24      | LED5[VHS_TIMER]    | OUT    | VHS TIMER SAND-BY LED ON/OFF CONTROL  |
| 25      | A.MUTE_VDR[H]      | OUT    | AUDIO MUTE CONTROL FOR VDR (MUTE ON : H)  |
| 26      | LED6[VHS]          | OUT    | VHS LED ON/OFF CONTROL  |
| 27      | NC                 | -      | NOT USED  |
| 28      | NC                 | -      | NOT USED  |
| 29      | RC_IN              | IN     | REMOTE CONTROL DATA INPUT   |
| 30      | LED7[VHS_REC]      | OUT    | VHS REC LED ON/OFF CONTROL  |
| 31      | P50_IN             | IN     | CONTROL SIGNAL FOR TV LINK  |
| 32      | COMPU_IN           | IN     | AV COMPULINK INPUT  |
| 33      | COMPU_OUT          | OUT    | AV COMPULINK OUTPUT   |
| 34      | P50_OUT            | OUT    | CONTROL SIGNAL FOR TV LINK  |
| 35      | P.CTL1[H]          | OUT    | CONTROL SIGNAL FOR SWITCHING POWER SUPPLY   |
| 36      | FAN_CTL            | OUT    | FAN MOTOR ON/OFF CONTROL  |
| 37      | NC                 | -      | NOT USED  |
| 38      | LED8_1[BLUE]       | OUT    | ILLUMINATION LED CONTROL  |
| 39      | STB                | OUT    | STROBE SIGNAL   |
| 40      | POWER_DET          | IN     | DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY  |
| 41      | LED8_2[BLUE]       | OUT    | ILLUMINATION LED CONTROL  |
| 42      | PROTECT            | IN     | DETECTION SIGNAL FOR SWITCHING POWER SUPPLY   |
| 43      | Vss                | -      | GND   |
| 44      | RMO                | OUT    | REMOTE CONTROL SIGNAL OUTPUT FOR OTHER UNIT   |
| 45      | Vcc                | -      | SYSTEM POWER  |
| 46      | S_DATA_TOVDR/FLASH | IN     | SERIAL DATA TRANSFER OUTPUT TO VDR SYSCON CPU   |
| 47      | S_DATA_FRVDR/FLASH | OUT    | SERIAL DATA TRANSFER OUTPUT FROM VDR SYSCON CPU   |
| 48      | S_CLK_SYS          | OUT    | SERIAL DATA TRANSFER CLOCK FOR Vg,r SCON CPU  |
| 49      | 12C_DATA_AV1       | IN/OUT | SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC   |
| 50      | 12C_CLK_AV1        | OUT    | SERIAL DATA TRANSFER CLOCK FOR MEMORY IC  |
| 51      | K_BUS_IN1          | IN     | SERIAL DATA TRANSFER INPUT FROM DVD CPU   |
| 52      | K_BUS_OUT1         | OUT    | SERIAL DATA TRANSFER OUTPUT TO DVD CPU  |
| 53      | K_BUS_CLK1         | OUT    | SERIAL DATA TRANSFERMER CLOCK FOR DVD CPU   |
| 54      | K_BUS_REQ1         | OUT    | SERIAL DATA TRANSFER REQUEST TO DVD CPU   |
| 55      | E5_RESET[L]        | OUT    | RESET OUTPUT TO IC1401  |
| 56      | FLASH              | -      | FOR REWRITTING PROGRAM  |

| PIN NO. | LABEL           | IN/OUT | FUNCTION                                       |
|---------|-----------------|--------|--|
| 57      | FLASH           | -      | FOR REWRITTING PROGRAM                         |
| 58      | FLASH           | -      | FOR REWRITTING PROGRAM                         |
| 59      | NC              | -      | NOT USED                                       |
| 60      | TU_12C_CLK1     | OUT    | CLOCK OUTPUT TO TUNER                          |
| 61      | TU_12_DATA1     | OUT    | DATA OUT PUT TO TUNER                          |
| 62      | FWE             | -      | FLASH WRITE ENABLE                             |
| 63      | NC              | -      | NOT USED                                       |
| 64      | X2              | -      | TIMER CLOCK(32kHz)                             |
| 65      | X1              | -      | TIMER CLOCK(32kHz)                             |
| 66      | RES             | -      | RESET TERMINAL(RESET ON:L)                     |
| 67      | OSC1            | IN     | MAIN SYSTEM CLOCK(10MHz)                       |
| 68      | Vss             | -      | GND  |
| 69      | OSC2            | IN     | MAIN SYSTEM CLOCK(10MHz)                       |
| 70      | Vcl             | -      | NOT USED                                       |
| 71      | MODE            | -      | NOT USED                                       |
| 72      | P.MUTE[H]       | OUT    | PICTURE MUTE CONTROL (MUTE : H)                |
| 73      | TU_V.MUTE1[H]   |        | TUNER VIDEO MUTE CONTROL (MUTE:H)              |
| 74      | SEPA_IN         | OUT    | Y/C SEPARATE INPUT MODE                        |
| 75      | 12C_CLK1        | OUT    | SERIAL DATA TRANSFER CLOCK FOR MEMORY IC       |
| 76      | 12C_DATA1       | -      | SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC      |
| 77      | LED9[VDR_TIMER] | OUT    | VDR TIMER STAND-BY LED ON/OFF CONTROL          |
| 78      | P.ON_PULSE      | OUT    | POWER ON/OFF PULSE OUTPUT                      |
| 79      | VDR_DATA_ON     | IN     | SERIAL DATA TRANSFER REQUEST TO VDR SYSCON CPU |
| 80      | VHS_DATA_ON     | OUT    | SERIAL DATA TRANSFER REQUEST TO VHS SYSCON CPU |
| 81      | LES10[VDR]      | OUT    | VDR LED ON/OFF CONTROL                         |
| 82      | Vcc             | -      | SYSTEM POWER                                   |
| 83      | A.MUTE[L]       | OUT    | AUDIO MUTE CONTROL (MUTE ON : L)               |
| 84      | Vss             | -      | GND  |
| 85      | A_INPUT_SEL1    | OUT    | AUDIO SIGNAL INPUT SELECT-1                    |
| 86      | A_INPUT_SEL2    | OUT    | AUDIO SIGNAL INPUT SELECT-2                    |
| 87      | DEC_SEL         | OUT    | DECODER SELECT                                 |
| 88      | FRONT[H]        | OUT    | FRONT INPUT MODE : H                           |
| 89      | AV1_YC_IN[H]    | OUT    | Y/C SEPARATE INPUT MODE OF AV1 : H             |
| 90      | VDR[H]          | OUT    | VDR MODE : H                                   |
| 91      | RGB[H]          | OUT    | RGB MODE : H                                   |
| 92      | SYNC_DET        | IN     | DETECTION OF VDR VIDEO SIGNAL                  |
| 93      | AD_RST[L]       | OUT    | A/D CONVERTER RESET PULSE OUTPUT               |
| 94      | SW1_1           | OUT    | TV RF SYSTEM SELECT-1                          |
| 95      | SW2_1           | OUT    | TV RF SYSTEM SELECT-2                          |
| 96      | P.SAVE[L]       | OUT    | POWER SAVE MODE:H                              |
| 97      | NC              | -      | NOT USED                                       |
| 98      | NC              | -      | NOT USED                                       |
| 99      | NC              | -      | NOT USED                                       |
| 100     | NC              | -      | NOT USED                                       |
| 101     | NC              | -      | NOT USED                                       |
| 102     | NC              | -      | NOT USED                                       |
| 103     | NC              | -      | NOT USED                                       |
| 104     | NC              | -      | NOT USED                                       |
| 105     | NC              | -      | NOT USED                                       |
| 106     | NC              | -      | NOT USED                                       |
| 107     | NC              | -      | NOT USED                                       |
| 108     | NC              | -      | NOT USED                                       |
| 109     | Vcc             | -      | SYSTEM POWER                                   |
| 110     | NC              | -      | NOT USED                                       |
| 111     | Vss             | -      | GND  |
| 112     | NC              | -      | NOT USED                                       |

| MODE PIN NO. |     |     |     | REC    |     |     |   | PLAY   |      |      |     |
|--------------|-----|-----|-----|--------|-----|-----|---|--------|------|------|-----|
| IC1          |     | 0   | 0   | 97     |     | 0   | 0 | 62     |      | 2.4  | 2.4 |
| 1            |     | 0   | 0   | 98     | 2.2 | 2.5 |   | 63     | 4.5  | 4.5  |     |
| 2            |     | 0   | 0   | 99     | 0   | 0   |   | 64     | 4.7  | 4.6  |     |
| 3            |     | 0   | 0   | 100    | 2.5 | 2.5 |   | IC2601 |      |      |     |
| 4            |     | 4.9 | 5.0 | IC201  |     |     |   | 1      | 0    | 0    | 0   |
| 5            | 2.0 | 2.0 |     | 1      | 0   | 0   |   | 2      | 0    | 0    | 0   |
| 6            | 2.5 | 2.6 |     | 2      | 2.6 | 2.6 |   | 3      | 0    | 0    | 0   |
| 7            | 2.7 | 2.8 |     | 3      | 5.0 | 5.0 |   | 4      | -7.7 | -7.7 |     |
| 8            | 1.8 | 1.3 |     | 4      | 0   | 0   |   | 5      | 0    | 0    | 0   |
| 9            | 1.9 | 1.2 |     | 5      | 4.8 | 4.2 |   | 6      | 0    | 0    | 0   |
| 10           | 2.3 | 1.9 |     | 6      | 2.4 | 2.4 |   | 7      | 0    | 0    | 0   |
| 11           | 2.6 | 3.0 |     | 7      | 2.4 | 2.5 |   | 8      | 10.7 | 10.7 |     |
| 12           | 1.5 | 0.5 |     | 8      | 5.0 | 5.0 |   | IC2602 |      |      |     |
| 13           | 0   | 0   |     | 9      | 3.3 | 0   |   | 1      | 0    | 0    | 0   |
| 14           | 2.7 | 2.2 |     | 10     | 4.6 | 4.6 |   | 2      | 0    | 0    | 0   |
| 15           | 2.7 | 2.8 |     | 11     | 4.8 | 4.8 |   | 3      | 0    | 0    | 0   |
| 16           | 0   | 3.4 |     | 12     | 5.0 | 5.0 |   | 4      | 0    | 0    | 0   |
| 17           | 2.8 | 2.8 |     | 13     | 2.8 | 2.8 |   | 5      | 0    | 0    | 0   |
| 18           | 1.9 | 1.9 |     | 14     | 2.8 | 0   |   | 6      | 0    | 0    | 0   |
| 19           | 2.8 | 2.8 |     | 15     | 0   | 0   |   | 7      | -7.7 | -7.7 |     |
| 20           | 0   | 0   |     | 16     | 1.2 | 1.2 |   | 8      | 0    | 0    | 0   |
| 21           | 2.8 | 2.8 |     | 17     | 0   | 0   |   | 9      | 0    | 0    | 0   |
| 22           | 4.9 | 5.0 |     | 18     | 5.0 | 5.0 |   | 10     | 0    | 0    | 0   |
| 23           | 2.3 | 2.3 |     | 19     | 2.4 | 2.4 |   | 11     | 0    | 0    | 0   |
| 24           | 0   | 0.5 |     | 20     | 0   | 0   |   | 12     | 0    | 0    | 0   |
| 25           | 0   | 0   |     | 21     | 2.4 | 2.4 |   | 13     | 0    | 0    | 0   |
| 26           | 2.9 | 2.8 |     | 22     | 0.7 | 0.4 |   | 14     | 0    | 0    | 0   |
| 27           | 0.2 | 0.5 |     | 23     | 5.0 | 5.0 |   | 15     | 0    | 0    | 0   |
| 28           | 0   | 0   |     | 24     | 2.9 | 2.9 |   | 16     | 6.2  | 6.2  |     |
| 29           | 2.4 | 2.4 |     | 25     | 2.6 | 2.5 |   | IC2603 |      |      |     |
| 30           | 2.8 | 2.9 |     | 26     | 5.0 | 5.0 |   | 1      | 0    | 0    | 0   |
| 31           | 0.2 | 0.2 |     | 27     | 4.8 | 4.2 |   | 2      | 0    | 0    | 0   |
| 32           | 2.4 | 2.5 |     | 28     | 3.6 | 3.6 |   | 3      | 0    | 0    | 0   |
| 33           | 2.0 | 2.0 |     | 29     | 5.0 | 5.0 |   | 4      | -7.6 | -7.7 |     |
| 34           | 1.7 | 1.8 |     | 30     | 5.0 | 5.0 |   | 5      | 0    | 0    | 0   |
| 35           | 3.0 | 3.1 |     | IC2201 |     |     |   | 6      | 0    | 0    | 0   |
| 36           | 2.3 | 2.3 |     | 1      | 2.4 | 2.4 |   | 7      | 0    | 0    | 0   |
| 37           | 3.0 | 3.0 |     | 2      | 0   | 0   |   | 8      | 10.7 | 10.7 |     |
| 38           | 2.1 | 0.1 |     | 3      | 2.2 | 2.4 |   | IC2604 |      |      |     |
| 39           | 1.4 | 0   |     | 4      | 0   | 0   |   | 1      | 0    | 0    | 0   |
| 40           | 2.1 | 2.1 |     | 5      | 0   | 0   |   | 2      | 0    | 0    | 0   |
| 41           | 2.8 | 2.7 |     | 6      | 2.5 | 2.4 |   | 3      | 0    | 0    | 0   |
| 42           | 1.9 | 0   |     | 7      | 0   | 2.0 |   | 4      | 0    | 0    | 0   |
| 43           | 2.0 | 0   |     | 8      | 0   | 0   |   | 5      | 0    | 0    | 0   |
| 44           | 0   | 0   |     | 9      | 0   | 0   |   | 6      | 0    | 0    | 0   |
| 45           | 3.1 | 3.1 |     | 10     | 0   | 0   |   | 7      | -7.6 | -7.5 |     |
| 46           | 3.1 | 3.1 |     | 11     | 0   | 0   |   | 8      | 0    | 0    | 0   |
| 47           | 5.0 | 5.0 |     | 12     | 2.0 | 2.0 |   | 9      | 5.0  | 5.0  |     |
| 48           | 0   | 0   |     | 13     | 0   | 0   |   | 10     | 0    | 0    | 0   |
| 49           | 3.1 | 3.1 |     | 14     | 0   | 0   |   | 11     | 0    | 0    | 0   |
| 50           | 5.0 | 5.0 |     | 15     | 0   | 0   |   | 12     | 0    | 0    | 0   |
| 51</         |     |     |     |        |     |     |   |        |      |      |     |

■ VOLTAGE CHARTS

<TERMINAL>

| MODE<br>PIN NO. | REC  | PLAY |
|-----------------|------|------|
| IC801           |      |      |
| 1               | 7.3  | 7.5  |
| 2               | 0    | 0    |
| 3               | 7.2  | 7.5  |
| 4               | 0    | 0    |
| 5               | 6.6  | 6.8  |
| 6               | 0    | 0    |
| 7               | 6.6  | 6.8  |
| 8               | 0    | 0    |
| 9               | 7.3  | 7.5  |
| 10              | 11.1 | 11.3 |
| 11              | 7.3  | 7.5  |
| 12              | 0    | 0    |
| IC901           |      |      |
| 1               | 2.4  | 2.4  |
| 2               | 0    | 0    |
| 3               | 2.1  | 2.1  |
| 4               | 0    | 0    |
| 5               | 2.4  | 2.4  |
| 6               | 0.8  | 0.8  |
| 7               | 2.1  | 2.1  |
| 8               | 0    | 0    |
| 9               | 1.4  | 1.5  |
| 10              | 0    | 0    |
| 11              | 0    | 0    |
| 12              | 2.5  | 2.4  |
| 13              | 4.3  | 3.6  |
| 14              | 3.6  | 4.0  |
| 15              | 2.2  | 2.2  |
| 16              | 5.0  | 5.0  |
| 17              | 1.8  | 1.8  |
| 18              | 5.0  | 5.0  |
| 19              | 2.4  | 2.4  |
| 20              | 0    | 0    |
| 21              | 2.1  | 2.1  |
| 22              | 2.4  | 2.4  |
| 23              | 4.1  | 4.2  |
| 24              | 0    | 1.8  |
| 25              | 0    | 0    |
| 26              | 1.7  | 1.7  |
| 27              | 0    | 0    |
| 28              | 1.7  | 1.7  |
| 29              | 2.2  | 2.2  |
| 30              | 5.0  | 5.0  |
| 31              | 2.0  | 2.0  |
| 32              | 0    | 0    |
| 33              | 2.2  | 2.3  |
| 34              | 0    | 0    |
| 35              | 1.8  | 1.6  |
| 36              | 2.9  | 2.9  |
| 37              | 2.3  | 2.2  |
| 38              | 6.4  | 9.0  |
| 39              | 2.2  | 2.2  |
| 40              | 4.0  | 2.2  |
| 41              | 4.4  | 4.5  |
| 42              | 4.5  | 4.5  |
| 43              | 4.5  | 4.5  |
| 44              | 0    | 0    |
| 45              | 4.5  | 4.5  |
| 46              | 4.5  | 4.5  |
| 47              | 0    | 0    |
| 48              | 4.4  | 4.4  |
| 49              | 4.4  | 4.4  |
| 50              | 0    | 0    |
| 51              | 2.2  | 2.1  |
| 52              | 1.8  | 1.9  |
| 53              | 1.9  | 1.9  |
| 54              | 0    | 0    |
| 55              | 1.6  | 1.6  |
| 56              | 1.6  | 1.6  |
| IC902           |      |      |
| 1               | 0    | 0    |
| 2               | 1.6  | 1.6  |
| 3               | 1.6  | 1.4  |
| 4               | 2.4  | 2.4  |
| 5               | 5.0  | 5.0  |
| 6               | 2.4  | 2.3  |
| 7               | 0    | 1.5  |
| 8               | 1.5  | 1.5  |
| Q901            |      |      |
| E               | 0    | 0    |
| C               | 10.9 | 11.3 |
| B               | 0    | 0    |
| Q902            |      |      |
| E               | 10.6 | 10.8 |
| C               | 11.0 | 11.3 |
| B               | 11.0 | 11.3 |
| Q903            |      |      |
| E               | 0    | 0    |
| C               | 11.0 | 11.3 |
| B               | 0    | 0    |
| Q904            |      |      |
| E               | 0    | 0    |
| C               | 0.2  | 0    |
| B               | 0    | 0    |
| Q907            |      |      |
| E               | 0    | 0    |

| MODE<br>PIN NO. | REC  | PLAY |
|-----------------|------|------|
| C               | 0    | 0    |
| B               | 0.2  | 0    |
| Q908            |      |      |
| E               | 2.9  | 2.9  |
| C               | 0    | 0    |
| B               | 4.1  | 4.1  |
| Q912            |      |      |
| E               | 2.1  | 2.2  |
| C               | 0    | 0    |
| B               | 1.5  | 1.5  |
| Q913            |      |      |
| E               | 3.1  | 3.1  |
| C               | 0    | 0    |
| B               | 2.5  | 2.5  |
| Q917            |      |      |
| E               | 0    | 0    |
| C               | 0    | 0    |
| B               | -0.4 | -0.1 |
| Q918            |      |      |
| E               | 0    | 0    |
| C               | 0    | 0    |
| B               | -0.4 | -0.1 |
| Q919            |      |      |
| E               | 4.7  | 4.7  |
| C               | -0.4 | -0.1 |
| B               | 5.0  | 5.0  |
| Q932            |      |      |
| E               | 0    | 0    |
| C               | 0    | 0    |
| B               | 3.1  | 3.1  |
| Q933            |      |      |
| E               | 2.3  | 2.4  |
| C               | 0    | 0    |
| B               | 1.7  | 1.7  |
| Q936            |      |      |
| E               | 3.1  | 3.0  |
| C               | 0    | 0    |
| B               | 2.4  | 2.4  |
| Q941            |      |      |
| E               | 6.3  | 6.4  |
| C               | 0    | 0    |
| B               | 5.6  | 5.8  |
| Q942            |      |      |
| E               | 0    | 0    |
| C               | 0    | 0    |
| B               | 8.4  | 8.7  |
| Q943            |      |      |
| E               | 0    | 0    |
| C               | 8.4  | 8.6  |
| B               | 0    | 0    |
| Q944            |      |      |
| E               | 0    | 0    |
| C               | 6.2  | 6.3  |
| B               | 0    | 0    |
| CN913           |      |      |
| 1               | 4.9  | 4.9  |
| 2               | 10.7 | 10.7 |
| 3               | 10.7 | 10.8 |
| 4               | 4.6  | 4.6  |
| 5               | 4.6  | 4.6  |
| 6               | 5.3  | 5.3  |
| 7               | 2.4  | 2.4  |
| 8               | 0    | 0.1  |
| 9               | 0    | 4.4  |
| 10              | 0    | 0    |
| 11              | 2.4  | 2.4  |
| 12              | 0    | 0    |
| 13              | 2.2  | 2.2  |
| 14              | 0    | 0    |
| CN914           |      |      |
| 1               | 0    | 0    |
| 2               | 0    | 0    |
| 3               | 0    | 0    |
| 4               | 0    | 0    |
| 5               | 0    | 0    |
| 6               | 0    | 0    |
| 7               | 0    | 0    |
| 8               | 0    | 0    |
| 9               | 0    | 0    |
| 10              | 0    | 0    |
| 11              | 0    | 0    |
| 12              | 0    | 0    |
| 13              | 0    | 0    |
| 14              | 5.0  | 5.1  |
| CN915           |      |      |
| 1               | 0    | 0    |
| 2               | 0    | 0    |
| 3               | 0    | 0.1  |
| 4               | 0    | 0    |
| 5               | 1.8  | 1.8  |
| 6               | 0    | 0    |
| 7               | 1.8  | 1.8  |
| 8               | 0    | 0    |
| 9               | 0.5  | 0.6  |
| 10              | 0    | 0    |
| 11              | 0.6  | 0.6  |
| 12              | 0    | 0    |

| MODE<br>PIN NO. | REC | PLAY |
|-----------------|-----|------|
| 13              | 0   | 0.6  |
| 14              | 5.0 | 5.0  |
| 15              | 0   | 0    |
| 16              | 0   | 0    |
| 17              | 0   | 0    |

<TUNER>

| MODE<br>PIN NO. | REC  | PLAY |
|-----------------|------|------|
| Q6001           |      |      |
| E               | 5.1  | 5.1  |
| C               | 5.7  | 5.8  |
| B               | 5.7  | 5.7  |
| Q6030           |      |      |
| E               | 4.5  | 4.4  |
| C               | 0    | 0    |
| B               | 3.8  | 3.8  |
| Q6031           |      |      |
| E               | 0    | 0    |
| C               | 3.8  | 3.8  |
| B               | 0    | 0    |
| Q6130           |      |      |
| E               | 4.4  | 0.7  |
| C               | 0    | 0    |
| B               | 3.8  | 0    |
| Q6131           |      |      |
| E               | 0    | 0    |
| C               | 3.8  | 0    |
| B               | 0    | 4.9  |
| CN6001          |      |      |
| 1               | 4.6  | 4.6  |
| 2               | 4.6  | 4.6  |
| 3               | 0    | 0    |
| 4               | 5.0  | 0    |
| 5               | 5.1  | 5.0  |
| 6               | 0    | 0    |
| 7               | 0    | 0    |
| 8               | 0    | 0    |
| 9               | 2.3  | 2.3  |
| 10              | 2.7  | 2.8  |
| 11              | 4.3  | 4.4  |
| 12              | 0    | 0    |
| 13              | 0    | 0    |
| 14              | 0    | 0    |
| CN6002          |      |      |
| 1               | 4.7  | 4.1  |
| 2               | -    | 4.3  |
| 3               | 0    | 0    |
| 4               | 4.7  | 4.2  |
| 5               | 4.8  | 4.2  |
| 6               | 4.1  | 4.2  |
| 7               | 0.3  | 0.1  |
| 8               | 0    | 4.9  |
| 9               | 4.4  | 0.7  |
| 10              | 0    | 0.1  |
| 11              | 0    | 0    |
| 12              | 0    | 0    |
| 13              | 0    | 0    |
| CN6003          |      |      |
| 1               | 0    | 0    |
| 2               | 0    | 0    |
| 3               | 32.6 | 32.6 |
| 4               | 5.0  | 5.0  |
| 5               | 5.0  | 5.0  |
| 6               | 10.7 | 1.8  |
| 7               | 5.8  | 5.8  |
| CN6501          |      |      |
| 1               | 0    | 0    |
| 2               | 4.5  | 4.6  |
| 3               | 4.6  | 4.6  |
| 4               | 0    | 0    |
| 5               | 0    | 0    |
| 6               | 0    | 0    |
| 7               | 4.9  | 5.0  |
| 8               | 0    | 0    |
| 9               | 0    | 0    |
| 10              | 0    | 0    |
| CN6601          |      |      |
| 1               | 0    | 0    |
| 2               | 4.7  | 4.2  |
| 3               | 4.5  | 4.2  |
| 4               | 0    | 0    |
| 5               | 0    | 0    |
| 6               | 0    | 0    |
| 7               | 0    | 0    |
| 8               | 0    | 0    |
| 9               | 0    | 0    |
| 10              | 0    | 0    |
| TU6001          |      |      |
| 1               | 5.1  | 5.1  |
| 2               | 0    | 0    |
| 3               | 0    | 0    |
| 4               | 0    | 0    |
| 5               | 0    | 0    |
| 6               | 0    | 0    |
| 7               | 0    | 0    |
| 8               | 2.2  | 2.2  |
| 9               | 0    | 0    |
| 10              | 0    | 0    |
| 11              | 5.0  | 5.0  |
| 12              | 5.0  | 5.0  |
| 13              | -    | -    |
| 14              | 4.9  | 4.9  |
| 15              | 0    | 0    |
| 16              | 32.5 | 32.4 |
| 17              | 0    | 0    |

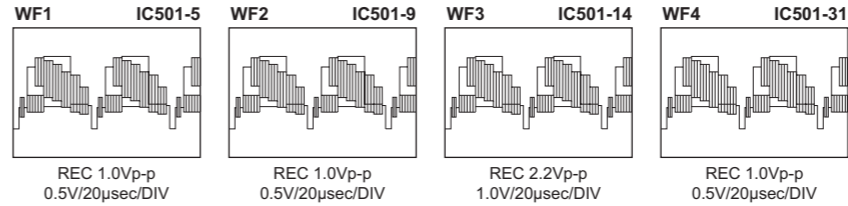
| MODE<br>PIN NO. | REC  | PLAY |
|-----------------|------|------|
| 18              | 0    | 0    |
| 19              | 0    | 0    |
| 20              | 2.4  | 2.4  |
| 21              | 0    | 0    |
| 22              | 0    | 0    |
| 23              | 2.5  | 2.5  |
| 24              | 3.8  | 3.8  |
| TU6002          |      |      |
| 1               | 5.1  | 5.1  |
| 2               | 0    | 0    |
| 3               | 0    | 0.1  |
| 4               | 0    | 0    |
| 5               | 0    | 0    |
| 6               | 0    | 0    |
| 7               | 0    | 0    |
| 8               | 2.2  | 2.2  |
| 9               | 0    | 0    |
| 10              | 0    | 0    |
| 11              | 4.7  | 4.2  |
| 12              | 4.7  | 4.2  |
| 13              | -    | -    |
| 14              | 4.9  | 4.9  |
| 15              | 0    | 0    |
| 16              | 32.5 | 32.4 |
| 17              | 0    | 0    |
| 18              | 0    | 0    |
| 19              | 4.1  | 4.1  |
| 20              | 0    | 0    |
| 21              | 2.3  | 2.3  |
| 22              | 0    | 0    |
| 23              | 2.6  | 2.6  |
| 24              | 3.8  | 1.7  |

<VIDEO SW>

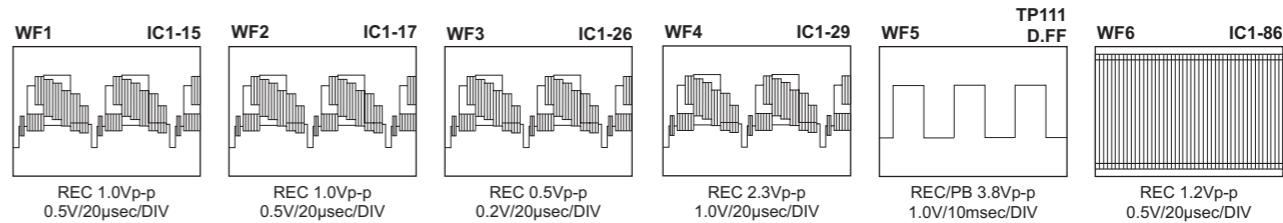
| MODE<br>PIN NO. | REC  | PLAY |
|-----------------|------|------|
| IC501           |      |      |
| 1               | 2.8  | 2.8  |
| 2               | 0.2  | 0.2  |
| 3               | 2.1  | 2.0  |
| 4               | 4.9  | 4.9  |
| 5               | 2.7  | 2.7  |
| 6               | 0.2  | 0.2  |
| 7               | 2.1  | 2.1  |
| 8               | 0.1  | 0.1  |
| 9               | 2.8  | 2.8  |
| 10              | 0.2  | 0.2  |
| 11              | 2.1  | 2.0  |
| 12              | 2.8  | 2.2  |
| 13              | 0    | 0    |
| 14              | 2.8  | 2.8  |
| 15              | 1.5  | 1.5  |
| 16              | 2.7  | 2.7  |
| 17              | 2.4  | 2.4  |
| 18              | 0    | 0    |
| 19              | 1.5  | 1.5  |
| 20              | 0    | 0    |
| 21              | 2.6  | 2.7  |
| 22              | 2.7  | 2.7  |
| 23              | 2.9  | 3.0  |
| 24              | 2.7  | 2.7  |
| 25              | 2.8  | 2.8  |
| 26              | 5.0  | 5.0  |
| 27              | 2.8  | 2.5  |
| 28              | 2.2  | 2.2  |
| 29              | 2.3  | 2.3  |
| 30              | 0    | 0    |
| 31              | 2.7  | 2.7  |
| 32              | 0    | 0    |
| 33              | 2.9  | 2.8  |
| 34              | 0.4  | 0.3  |
| 35              | 2.8  | 2.8  |
| 36              | 3.1  | 3.1  |
| 37              | 0    | 0    |
| 38              | 4.9  | 5.0  |
| 39              | 4.9  | 4.9  |
| 40              | 2.8  | 2.7  |
| 41              | 2.7  | 2.7  |
| 42              | 2.8  | 2.8  |
| 43              | 3.0  | 3.0  |
| 44              | 1.6  | 1.6  |
| 45              | 1.3  | 1.3  |
| 46              | 4.9  | 4.9  |
| 47              | 2.47 | 2.4  |
| 48              | 2.8  | 2.8  |
| 49              | 0    | 0    |
| 50              | 2.8  | 2.8  |
| 51              | 2.8  | 2.9  |
| 52              | 0    | 0    |
| 53              | 2.9  | 2.9  |
| 54              | 2.2  | 2.2  |
| 55              | 1.1  | 1.1  |
| 56              | 2.5  | 2.5  |
| IC502           |      |      |
| 1               | 0    | 0    |
| 2               | 2.6  | 2.5  |
| 3               | 4.9  | 5.0  |
| 4               | 5.0  | 5.0  |
| 5               | 0    | 0    |
| 6               | 4.0  | 3.9  |
| 7               | 4.2  | 0    |
| 8               | 0    | 0    |
| 9               | 4.6  | 4.6  |
| 10              | 0    | 0    |
| 11              | 2.1  | 2.1  |
| 12              | 2.0  | 2.1  |
| 13              | 0.8  | 0.9  |
| 14              | 0    | 0    |
| 15              | 5.0  | 5.0  |
| 16              | 2.5  | 2.5  |
| 17              | 2.5  | 2.5  |
| 18              | 4.9  | 5.0  |
| 19              | 5.0  | 4.9  |
| 20              | 4.9  | 4.7  |
| 21              | 0    | 0    |
| 22              | 3.6  | 3.6  |
| 23              | 4.9  | 4.9  |
| 24              | 4.9  | 5.0  |
| Q503            |      |      |
| E               | 1.8  | 1.7  |
| C               | 5.0  | 5.0  |
| B               | 2.5  | 2.5  |
| Q504            |      |      |
| E               | 0.9  | 0.9  |
| C               | 0    | 0    |
| B               | 0.2  | 0.3  |
| Q505            |      |      |
| E               | 1.8  | 1.8  |
| C               | 0    | 0    |
| B               | 1.1  | 1.1  |
| Q506            |      |      |
| E               | 3.1  | 3.0  |
| C               | 0    | 0    |

| MODE<br>PIN NO. | REC | PLAY |
|-----------------|-----|------|
| B               | 2.4 | 2.4  |
| CN501           |     |      |
| 1               | 1.8 | 1.8  |
| 2               | 0   | 0    |
| 3               | 1.8 | 1.8  |
| 4               | 0   | 0    |
| CN502           |     |      |
| 1               | 4.9 | 5.0  |
| 2               | 0   | 5.0  |
| 3               | 4.6 | 0    |
| 4               | 4.6 | 4.6  |
| 5               | 5.0 | 5.0  |
| 6               | 5.0 | 5.0  |
| 7               | 2.3 | 2.2  |
| 8               | 0   | 0    |
| 9               | 0   | 0    |
| 10              | 0   | 0    |
| 11              | 6.1 | 6.1  |
| 12              | 0   | 0    |
| 13              | 4.4 | 4.4  |
| 14              | 0   | 0    |
| 15              | 0   | 0.3  |
| 16              | 0   | 0    |
| 17              | 0   | 0    |
| 18              | 2.2 | 2.2  |
| 19              | 0.1 | 0    |
| 20              | 2.4 | 2.4  |

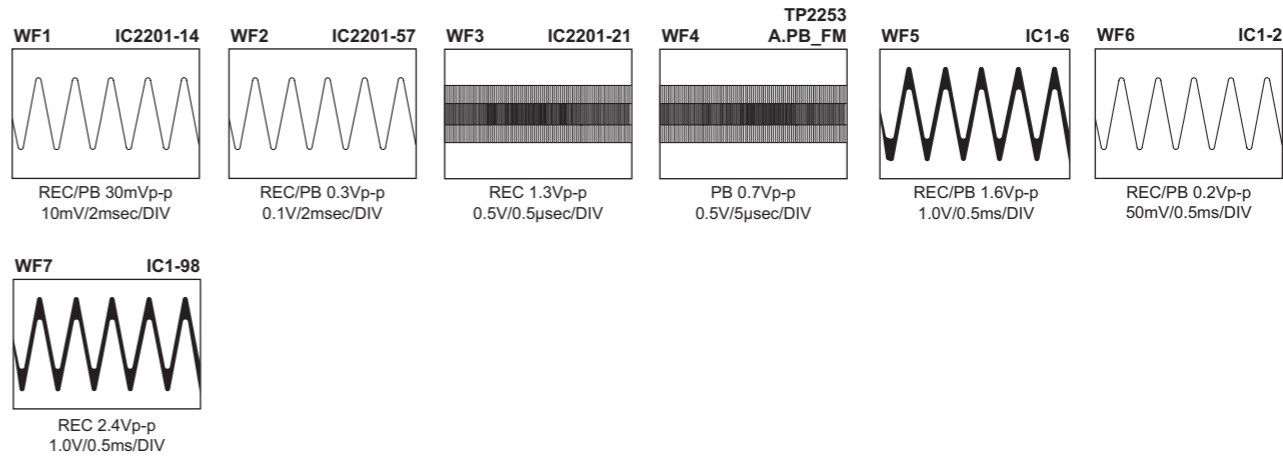
<VIDEO BLOCK DIAGRAM(1)>



<VIDEO BLOCK DIAGRAM (2)>



<AUDIO BLOCK DIAGRAM>







Victor Company of Japan, Limited  
AV & MULTIMEDIA COMPANY DIGITAL VIDEO STORAGE CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YD048)



Printed in Japan  
VPT

# PARTS LIST

[DR-MX1SEF,DR-MX1SEK,DR-MX1SEU,DR-MX1SEY,DR-MX1SEZ]

\* SAFETY PRECAUTION

Parts identified by the  $\triangle$  symbol are critical for safety. Replace only with specified part numbers.

\* BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

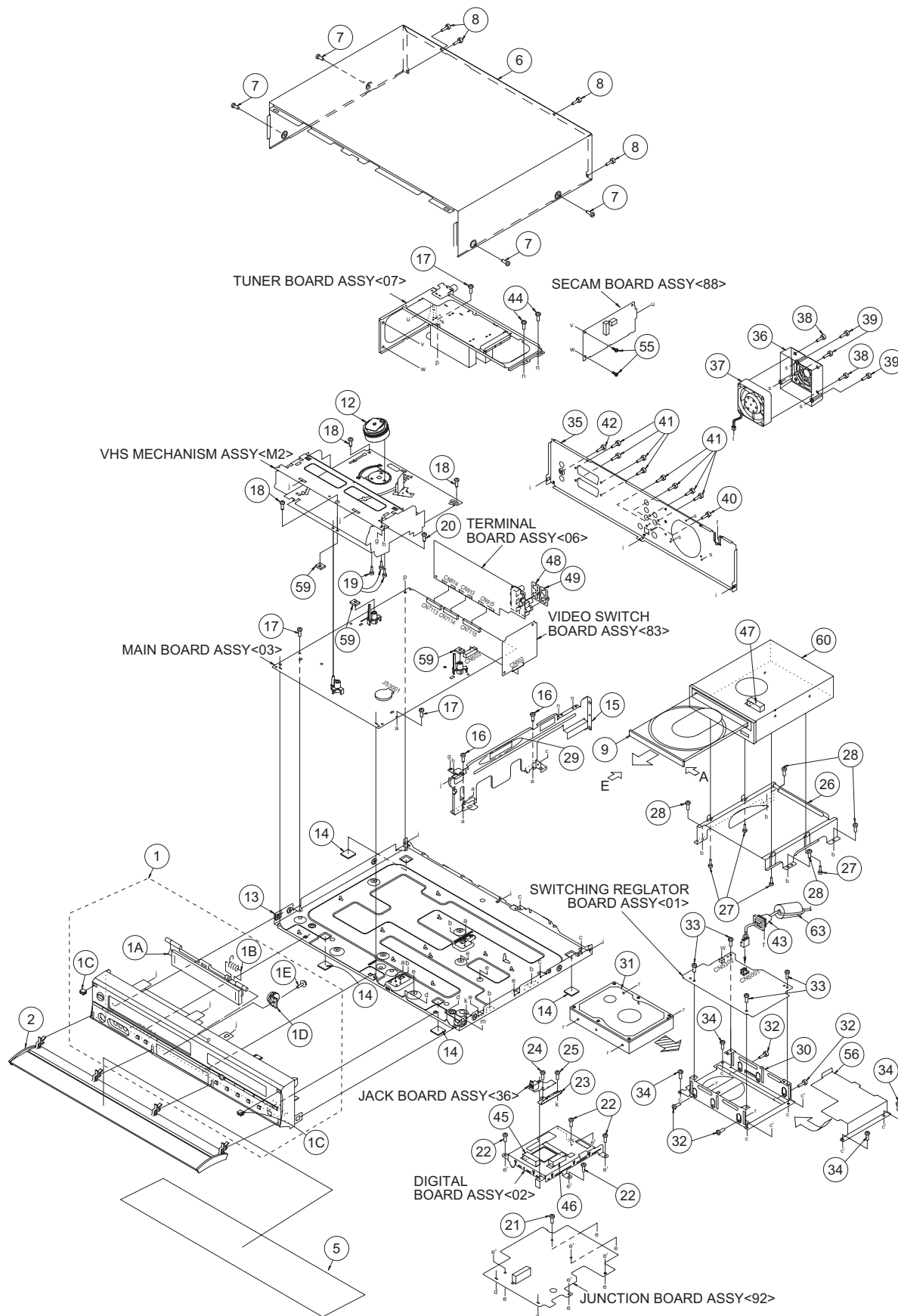
\* (x\_) in a description column shows the number of the used part.

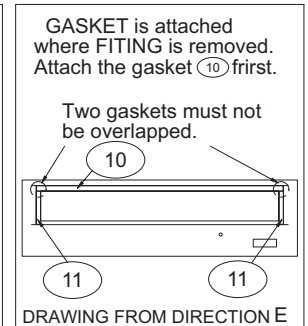
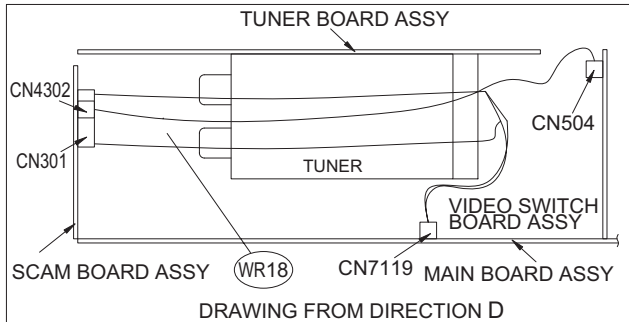
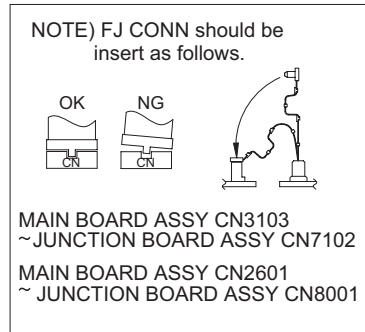
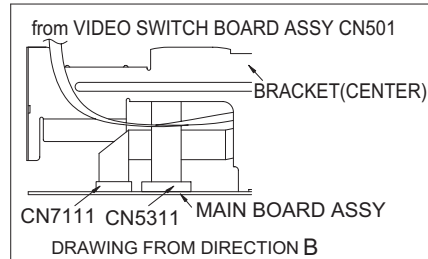
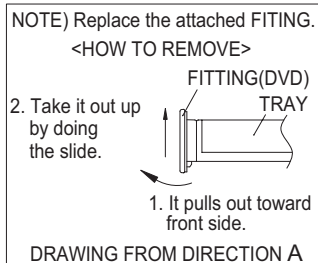
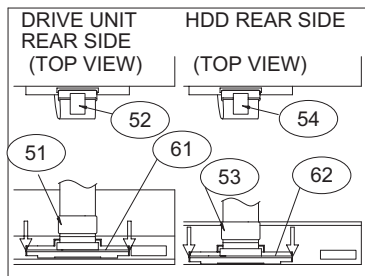
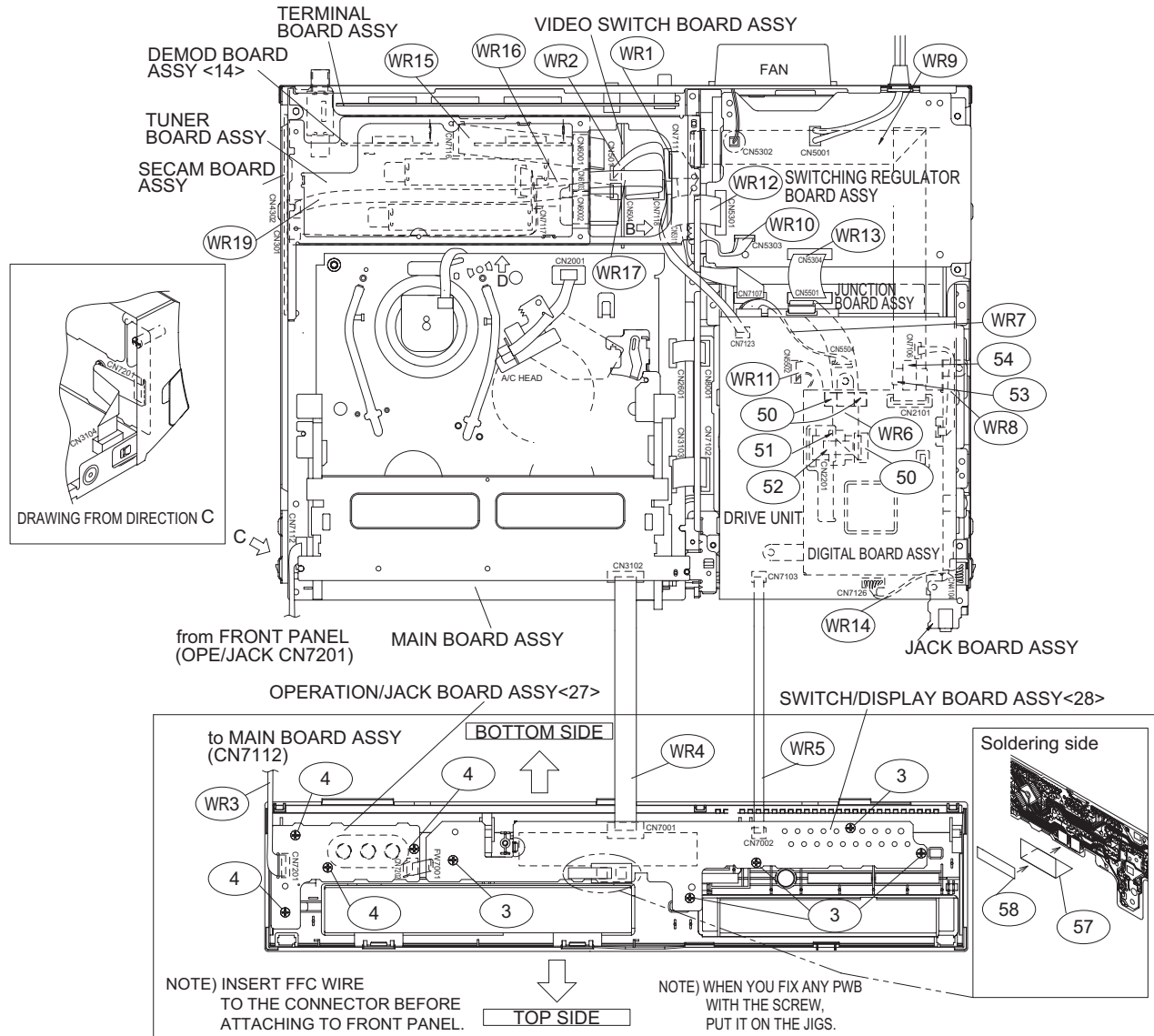
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# Exploded view of general assembly and parts list

Block No. M1MM





| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

## General assembly

Block No. [M][1][M][M]

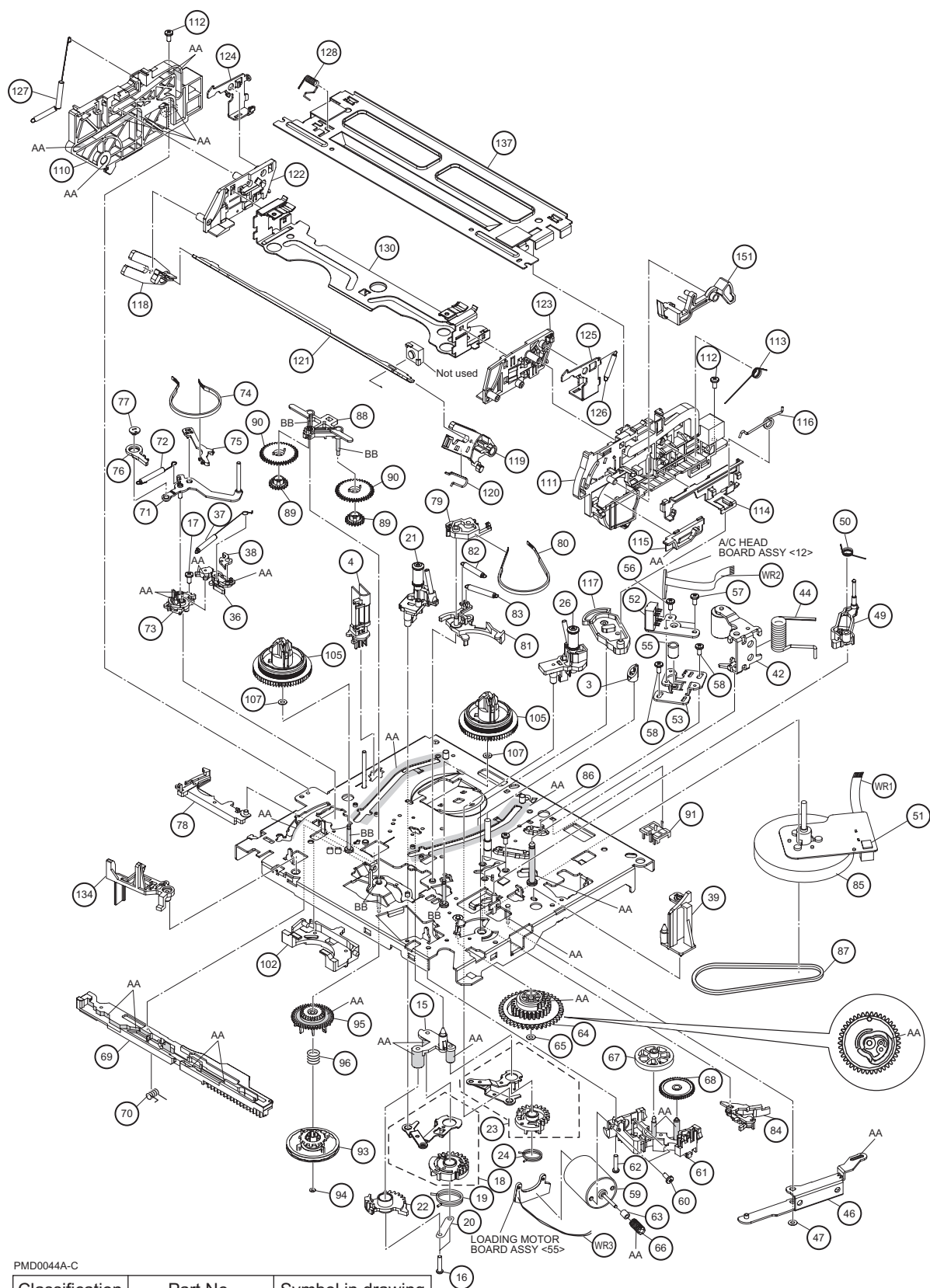
| Symbol No. | Part No.      | Part Name                        | Description                           | Local   |
|------------|---------------|----------------------------------|---------------------------------------|---------|
| △ 1        | LP10555-004C  | FRONT PANEL ASSY                 |                                       |         |
| 1A         | LP21308-001A  | CASSETTE DOOR                    |                                       |         |
| 1B         | PQ46448       | TORSION SPRING                   |                                       |         |
| 1C         | QZW0063-001   | MAGNET LATCH                     |                                       | (x2)    |
| 1D         | QZW0055-005   | DAMPER                           |                                       |         |
| 1E         | LP31491-001A  | ASSY SCREW                       |                                       |         |
| 2          | LP10557-006C  | DOOR ASSY                        |                                       | A       |
| 2          | LP10557-005C  | DOOR ASSY                        |                                       | B       |
| 2          | LP10557-004C  | DOOR ASSY                        |                                       | C,D,E   |
| 3          | QYTDSF2608ZA  | TAP SCREW                        | M2.6 x 8mm SWITCH/DISPLAY(x5)         |         |
| 4          | QYTDSF2608ZA  | TAP SCREW                        | M2.6 x 8mm OPERATION/JACK(x4)         |         |
| 5          | QPH00704705   | POLY SHEET                       | 7cm x 47cm                            |         |
| △ 6        | LP10460-010A  | TOP COVER                        |                                       |         |
| 7          | QYSBSG3006NA  | TAP SCREW                        | M3 x 6mm TOP SIDE(x4)                 |         |
| 8          | QYSBSG3006NA  | TAP SCREW                        | M3 x 6mm TOP REAR(x4)                 |         |
| 9          | LP21348-002B  | FITTING(DVD)                     |                                       |         |
| 10         | LP41217-001A  | GASKET                           |                                       |         |
| 11         | LP41218-001A  | GASKET                           |                                       | (x2)    |
| 12         | PDV2541A      | DRUM FINAL ASSY                  |                                       | A       |
| 12         | PDV2539A      | DRUM FINAL ASSY                  |                                       | B,C,D,E |
| △ 13       | LP10525-002B  | BOTTOM CHASSIS                   |                                       |         |
| 14         | LP31348-001A  | FOOT                             |                                       | (x4)    |
| 15         | LP21294-001B  | BRACKET(CENTER)                  |                                       |         |
| 16         | LP31391-001A  | SPECIAL SCREW                    | BRACKET(CENTER)(x2)                   |         |
| 17         | LP31391-001A  | SPECIAL SCREW                    | MAIN(x3)                              |         |
| 18         | LP31391-002A  | SPECIAL SCREW                    | MECHANISM(x3)                         |         |
| 19         | QYSPSPD3008ZA | SCREW                            | M3 x 8mm DRUM(x3)                     |         |
| 20         | LP31391-001A  | SPECIAL SCREW                    | HOUSING                               |         |
| 21         | LP31391-001A  | SPECIAL SCREW                    | JUNCTION                              |         |
| 22         | LP31391-001A  | SPECIAL SCREW                    | DIGITAL(x4)                           |         |
| 23         | LP31413-001B  | BRACKET(JACK BOARD ASSY)         |                                       |         |
| 24         | LP31391-001A  | SPECIAL SCREW                    | JACK                                  |         |
| 25         | LP31391-001A  | SPECIAL SCREW                    | BRACKET(JACK BOARD ASSY)              |         |
| 26         | LP21299-001B  | LOADER BRACKET                   |                                       |         |
| 27         | QYTDST3006ZA  | TAP SCREW                        | M3 x 6mm DRIVE UNIT(x4)               |         |
| 28         | LP31391-001A  | SPECIAL SCREW                    | BRACKET(DVD)(x4)                      |         |
| 29         | LP31390-001A  | BARCODE LABEL                    |                                       |         |
| 30         | LP21297-001B  | BRACKET(HDD/SWITCHING REGULATOR) |                                       |         |
| 31         | LP40267-018A  | HDD                              | (SERVICE)                             |         |
| 32         | LP40738-001B  | SCREW                            | HDD(x4)                               |         |
| 33         | LP31391-001A  | SPECIAL SCREW                    | SWITCHING REGULATOR(x4)               |         |
| 34         | LP31391-001A  | SPECIAL SCREW                    | BRACKET(HDD/SWITCHING REGULATOR)(x4)  |         |
| △ 35       | LP21295-003A  | REAR COVER                       |                                       |         |
| 36         | LP21296-001A  | COVER(FAN)                       |                                       |         |
| 37         | QAR0326-001   | FAN MOTOR                        |                                       |         |
| 38         | QYTDSF3010MA  | TAP SCREW                        | M3 x 10mm FAN(x2)                     |         |
| 39         | QYSBSG3006MA  | TAP SCREW                        | M3 x 6mm COVER(FAN)(x3)               |         |
| 40         | QYSBSG3006NA  | TAP SCREW                        | M3 x 6mm REAR COVER                   |         |
| 41         | QYTDSF3008MA  | TAP SCREW                        | M3 x 8mm JACK COVER(x8)               |         |
| 42         | QYTDST3005MA  | TAP SCREW                        | M3 x 5mm TUNER                        |         |
| △ 43       | QMP51K0-170-K | POWER CORD                       | 1.7m BLACK                            | B       |
| △ 43       | QMP4A10-170-K | POWER CORD                       | 1.7m BLACK                            | A,C,D,E |
| 44         | LP31391-001A  | SPECIAL SCREW                    | TUNER BRACKET(x2)                     |         |
| 45         | LP41171-001A  | SHIELD TIGHT                     |                                       |         |
| 46         | LP41171-001A  | SHIELD TIGHT                     |                                       |         |
| 47         | LP41171-001A  | SHIELD TIGHT                     |                                       |         |
| 48         | LP31345-001A  | EARTH PLATE                      |                                       |         |
| 49         | LP31345-001A  | EARTH PLATE                      |                                       |         |
| 50         | LP30002-0A9A  | SPACER                           |                                       | (x3)    |
| 51         | QQR1439-003   | FERRITE CORE                     |                                       | (x2)    |
| 52         | LP30002-0A9A  | SPACER                           |                                       | (x2)    |
| 53         | QQR1439-003   | FERRITE CORE                     |                                       | (x2)    |
| 54         | LP30002-0A9A  | SPACER                           |                                       | (x2)    |
| 55         | LP31391-001A  | SPECIAL SCREW                    | SECAM(x2)                             | A       |
| △ 56       | LP31465-001A  | SHEET(HDD)                       |                                       |         |
| 57         | LP41206-001A  | SHEET                            |                                       |         |
| 58         | LP30002-0A9A  | SPACER                           |                                       |         |
| 59         | LP41140-001A  | INSULATOR                        |                                       | (x3)    |
| △ 60       | QAL0651-001   | DRIVE UNIT                       |                                       |         |
| 61         | QGZ0020A1-40  | CONNECTOR                        |                                       | (1-40)  |
| 62         | QGZ0020A1-40  | CONNECTOR                        |                                       | (1-40)  |
| 63         | QQR0918-001   | CORE FILTER                      |                                       |         |
| WR 1       | QUQ112-0918CG | FFC WIRE                         | JUNCTION CN7107-MAIN CN7111           |         |
| WR 2       | QUQ212-0422CG | FFC WIRE                         | VIDEO SWITCH CN501-JUNCTION CN7123    |         |
| WR 3       | QUQ112-0910CG | FFC WIRE                         | OPERATON/JACK CN7201-MAIN CN7112      |         |
| WR 4       | QUQ112-1110CG | FFC WIRE                         | SWITCH/DISPLAY CN7001-MAIN CN3102     |         |
| WR 5       | QUQ212-0410CG | FFC WIRE                         | JUNCTION CN7103-SWITCH/DISPLAY CN7002 |         |
| WR 6       | QUQ105-4021AF | FFC WIRE                         | DRIVE UNIT-DIGITAL CN2201             |         |
| WR 7       | QJJ032-041504 | SIN CR C-C WIRE                  | DRIVE UNIT-JUNCTION CN5504            |         |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.      | Part Name       | Description                                | Local |
|--------------|---------------|-----------------|--|-------|
| WR 8         | QUQ210-0408CC | FFC WIRE        | DIGITAL CN1405-JUNCTION CN7106             |       |
| WR 9         | QUQ105-4040AF | FFC WIRE        | HDD-DIGITAL CN2101                         |       |
| WR10         | QJJ032-041504 | SIN CR C-C WIRE | HDD-SWITCHING REGULATOR CN5303             |       |
| WR11         | QJJ015-060801 | SIN CR C-C WIRE | DIGITAL CN1003-JUNCTION CN5502             |       |
| WR12         | QUQ212-1512CG | FFC WIRE        | SWITCHING REGULATOR CN5301-MAIN CN5311     |       |
| WR13         | QUQ212-1912CG | FFC WIRE        | SWITCHING REGULATOR CN5304-JUNCTION CN5501 |       |
| WR14         | WJN0085-003A  | E-SH C WIRE C-C | JACK CN4104-JUNCTION CN7126                |       |
| WR15         | QUQ112-1420CG | FFC WIRE        | TUNER CN6001-MAIN CN 7116                  |       |
| WR16         | QUQ112-1315CG | FFC WIRE        | TUNER CN6002-MAIN CN7117                   |       |
| WR17         | QUQ112-0716CG | FFC WIRE        | TUNER CN6003-MAIN CN7118                   |       |
| WR18         | QUQ112-1524CG | FFC WIRE        | SECAM CN301-MAIN CN7119                    | A     |
| WR19         | QUQ112-0628CG | FFC WIRE        | VIDEO SWITCH CN504-SECAM CN4302            | A     |

VHS mechanism assembly and parts list

Block No. M2MM



PMD0044A-C

| Classification | Part No.    | Symbol in drawing |
|----------------|-------------|-------------------|
| Grease         | KYODO-SH-JB | AA                |
| Oil            | COSMO-HV56  | BB                |

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

## VHS mechanism

Block No. [M][2][M][M]

| △ Symbol No. | Part No.     | Part Name                  | Description     | Local |
|--------------|--------------|----------------------------|-----------------|-------|
| 3            | LP40097-002E | GUIDE POLE CAP             |                 |       |
| 4            | NAH0004-001  | FULL ERASE HEAD            |                 |       |
| 15           | LP30958-001B | LOADING GEAR BASE          |                 |       |
| 16           | QYTPST2620ZA | TAP SCREW                  | M2.6 x 20mm(x2) |       |
| 17           | QYTDST2606ZA | TAP SCREW                  | M2.6 x 6mm      |       |
| 18           | LP40798-002A | LOADING GEAR(SUPPLY) ASSY  |                 |       |
| 19           | LP40837-001A | TORSION SPRING(SUPPLY)     |                 |       |
| 20           | LP40903-004A | FIXING PLATE               |                 |       |
| 21           | LP40806-001D | POLE BASE ASSY(SUPPLY)     |                 |       |
| 22           | LP30959-001B | LOADING GEAR               |                 |       |
| 23           | LP40802-002A | LOADING GEAR(TAKE UP) ASSY |                 |       |
| 24           | LP40838-001A | TORSION SPRING(TAKE UP)    |                 |       |
| 26           | LP40808-001E | POLE BASE ASSY(TAKE UP)    |                 |       |
| 36           | LP21055-001G | TAKE UP LEVER              |                 |       |
| 37           | LP40943-001A | TENSION SPRING             |                 |       |
| 38           | LP40859-001D | T-UP HEAD                  |                 |       |
| 39           | LP30961-001C | LID GUIDE                  |                 |       |
| 42           | LP40810-003A | PINCH ROLLER ARM ASSY      |                 |       |
| 44           | LP40840-001E | TORSION SPRING             |                 |       |
| 46           | LP30963-002A | PRESS LEVER                |                 |       |
| 47           | PQM30017-24  | SLIT WASHER                |                 |       |
| 49           | LP40813-001D | GUIDE ARM ASSY             |                 |       |
| 50           | LP40841-001A | TORSION SPRING             |                 |       |
| 51           | LP30002-090A | SPACER                     |                 |       |
| 52           | NAH0003-001  | AC HEAD                    |                 |       |
| 53           | LP30965-003A | HEAD BASE                  |                 |       |
| 55           | LP40842-001D | COMPRESSION SPRING         |                 |       |
| 56           | QYTDST2006MA | TAP SCREW                  | M2 x 6mm        |       |
| 57           | LP41036-002A | A/C ADJ. SCREW             | (x2)            |       |
| 58           | QYTDST2606ZA | TAP SCREW                  | M2.6 x 6mm(x2)  |       |
| 59           | QAR0289-001  | LOADING MOTOR              |                 |       |
| 60           | QYTPSP3003ZA | SCREW                      | M3 x 3mm(x2)    |       |
| 61           | LP21056-002J | MOTOR BRACKET              |                 |       |
| 62           | QYTPST2620ZA | TAP SCREW                  | M2.6 x 20mm     |       |
| 63           | LP40814-001B | WORM BEARING               |                 |       |
| 64           | LP21044-001E | CONTROL CAM                |                 |       |
| 65           | PQM30017-24  | SLIT WASHER                |                 |       |
| 66           | LP40815-001A | WORM GEAR                  |                 |       |
| 67           | LP40816-001B | HELICAL GEAR               |                 |       |
| 68           | LP40817-001A | CONNECT GEAR               |                 |       |
| 69           | LP10400-001N | CONTROL PLATE              |                 |       |
| 70           | LP40843-001A | TORSION SPRING             |                 |       |
| 71           | LP40818-002A | TENSION ARM ASSY           |                 |       |
| 72           | LP40844-001F | TENSION SPRING             |                 |       |
| 73           | LP21045-001E | TENSION ARM BASE           |                 |       |
| 74           | LP40821-001A | TENSION BAND ASSY          |                 |       |
| 75           | LP30967-001B | BAND HOLDER-1              |                 |       |
| 76           | LP30968-001C | BAND HOLDER-2              |                 |       |
| 77           | LP40822-002B | ADJUST PIN                 |                 |       |
| 78           | LP31000-005E | TENSION ARM LEVER          |                 |       |
| 79           | LP21046-001C | MAIN BRAKE(TAKE UP)        |                 |       |
| 80           | LP40824-001A | BAND BRAKE ASSY            |                 |       |
| 81           | LP30969-002B | BRAKE LEVER                |                 |       |
| 82           | LP30003-033C | TENSION SPRING             |                 |       |
| 83           | LP30003-035C | TENSION SPRING             |                 |       |
| 84           | LP40825-001B | CAPSTAN BRAKE ASSY         |                 |       |
| △ 85         | QAR0267-003  | CAPSTAN MOTOR              |                 |       |
| 86           | QYTPSG2606ZA | TAP SCREW                  | M2.6 x 6mm(x3)  |       |
| 87           | LP30005-010A | BELT                       | CAPSTAN MOTOR   |       |
| 88           | LP30970-001B | IDLER ARM                  |                 |       |
| 89           | LP40828-004A | IDLER GEAR 1               | (x2)            |       |
| 90           | LP40829-002A | IDLER GEAR 2               | (x2)            |       |
| 91           | LP31014-002A | WIRE HOLDER                |                 |       |
| 93           | LP40934-001B | CLUTCH UNIT                |                 |       |
| 94           | PQM30017-47  | SLIT WASHER                |                 |       |
| 95           | LP30973-001A | DIRECT GEAR                |                 |       |
| 96           | LP40939-001A | COMPRESSION SPRING         |                 |       |
| 102          | LP30974-001C | CHANGE LEVER               |                 |       |
| 105          | LP21049-001A | REEL DISK                  | (x2)            |       |
| 107          | LP30017-004A | SPACER                     | REEL DISK(x2)   |       |
| 110          | LP10401-001L | SIDE FRAME(L)              |                 |       |
| 111          | LP10402-001M | SIDE FRAME(R)              |                 |       |
| 112          | QYTDST2606ZA | TAP SCREW                  | M2.6 x 6mm(x2)  |       |
| 113          | LP40917-001D | TORSION SPRING             |                 |       |
| 114          | LP30976-002B | SIDE PLATE                 |                 |       |
| 115          | LP30977-002E | LIMIT PLATE                |                 |       |
| 116          | LP40846-001C | LIMIT SPRING               |                 |       |
| 117          | LP31100-002A | DRIVE LEVER                |                 |       |
| 118          | LP30978-001B | DRIVE ARM(L)               |                 |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| Symbol No. | Part No.     | Part Name            | Description | Local           |
|------------|--------------|----------------------|-------------|-----------------|
| 119        | LP30979-001S | DRIVE ARM(R)         |             |                 |
| 120        | LP40847-001B | TORSION SPRING       |             |                 |
| 121        | LP30980-002A | CONNECT PLATE        |             |                 |
| 122        | LP10403-001C | SIDE HOLDER(L)       |             |                 |
| 123        | LP10404-001E | SIDE HOLDER(R)       |             |                 |
| 124        | LP30983-002A | LOCK LEVER(L)        |             |                 |
| 125        | LP30984-002A | LOCK LEVER(R)        |             |                 |
| 126        | LP40924-001D | TENSION SPRING       |             |                 |
| 127        | LP40972-001A | EARTH SPRING(1)      |             |                 |
| 128        | LP40857-001B | EARTH SPRING(2)      |             |                 |
| 130        | LP30981-003B | CASSETTE HOLDER ASSY |             |                 |
| 134        | LP21051-002C | REC SAFETY LEVER     |             |                 |
| 137        | LP21052-002A | TOP FRAME            |             |                 |
| 151        | LP30985-002M | DOOR OPENER          |             |                 |
| WR1        | WJT0117-001A | E-CARD WIRE          |             | DRUM            |
| WR2        | WJT0067-001B | E-CARD WIRE          |             | A/C HEAD CN2001 |
| WR3        | WJS0022-001A | E-FL/RB WIRE         |             | LOADING MOTOR   |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

# Electrical parts list

## Switching reglator board

Block No. [0][1]

| △ Symbol No. | Part No.         | Part Name                     | Description | Local |
|--------------|------------------|-------------------------------|-------------|-------|
| PW1          | LPA10249-03B1    | SWITCHING REGLATOR BOARD ASSY |             |       |
| IC5101       | STR-G6653-F9     | IC                            |             |       |
| IC5301       | UTCTL431-T       | IC                            |             |       |
| IC5301       | or MM1431AT-T    | IC                            |             |       |
| IC5301       | or L5431-T       | IC                            |             |       |
| IC5301       | or TL431/A-T     | IC                            |             |       |
| Q5303        | DTA114EKA-X      | DIGI TRANSISTOR               |             |       |
| Q5303        | or UN2111-X      | TRANSISTOR                    |             |       |
| Q5303        | or RT1P141C-X    | DIGI TRANSISTOR               |             |       |
| Q5304        | DTC114EKA-X      | DIGI TRANSISTOR               |             |       |
| Q5304        | or UN2211-X      | TRANSISTOR                    |             |       |
| Q5304        | or RT1N141C-X    | DIGI TRANSISTOR               |             |       |
| Q5305        | 2SD2144S/UV-T    | TRANSISTOR                    |             |       |
| Q5305        | or 2SC3576-JVC-T | TRANSISTOR                    |             |       |
| Q5306        | 2SC5739/QP/      | TRANSISTOR                    |             |       |
| Q5307        | 2SA1585S/QR-T    | TRANSISTOR                    |             |       |
| Q5308        | DTC114EKA-X      | DIGI TRANSISTOR               |             |       |
| Q5308        | or UN2211-X      | TRANSISTOR                    |             |       |
| Q5308        | or RT1N141C-X    | DIGI TRANSISTOR               |             |       |
| Q5313        | 2SA1585S/QR-T    | TRANSISTOR                    |             |       |
| Q5314        | 2SA1585S/QR-T    | TRANSISTOR                    |             |       |
| Q5315        | DTC114EKA-X      | DIGI TRANSISTOR               |             |       |
| Q5315        | or UN2211-X      | TRANSISTOR                    |             |       |
| Q5315        | or RT1N141C-X    | DIGI TRANSISTOR               |             |       |
| D5001        | GBJ4J            | BRIDGE DIODE                  |             |       |
| D5001        | or D3SBA60       | DIODE                         |             |       |
| D5101        | SARS01-T2        | SI DIODE                      |             |       |
| D5103        | 1F4G-T2          | FR DIODE                      |             |       |
| D5103        | or 10ERB20-T2    | FR DIODE                      |             |       |
| D5103        | or ERA18-02-T2   | FR DIODE                      |             |       |
| D5103        | or AU01Z-T2      | FR DIODE                      |             |       |
| D5103        | or 1SR153-400-T2 | FR DIODE                      |             |       |
| D5104        | 1SS133-T2        | SI DIODE                      |             |       |
| D5104        | or 1SS270A-T2    | SI DIODE                      |             |       |
| D5105        | 10ERB20-T2       | FR DIODE                      |             |       |
| D5105        | or ERA18-02-T2   | FR DIODE                      |             |       |
| D5105        | or AU01Z-T2      | FR DIODE                      |             |       |
| D5105        | or 1SR153-400-T2 | FR DIODE                      |             |       |
| D5105        | or 1F4G-T2       | FR DIODE                      |             |       |
| D5106        | 10ERB20-T2       | FR DIODE                      |             |       |
| D5106        | or ERA18-02-T2   | FR DIODE                      |             |       |
| D5106        | or AU01Z-T2      | FR DIODE                      |             |       |
| D5106        | or 1SR153-400-T2 | FR DIODE                      |             |       |
| D5106        | or 1F4G-T2       | FR DIODE                      |             |       |
| D5202        | 1SR156-400-X     | SI DIODE                      |             |       |
| D5203        | RL2Z-LFB2        | FR DIODE                      |             |       |
| D5204        | D1FS4A-X         | SB DIODE                      |             |       |
| D5205        | RK34-LFB2        | FUSEIODE                      |             |       |
| D5207        | D1FS4A-X         | SB DIODE                      |             |       |
| D5208        | 1S4-T2           | SB DIODE                      |             |       |
| D5208        | or SBO40-T2      | SB DIODE                      |             |       |
| D5208        | or AW04-T2       | SB DIODE                      |             |       |
| D5209        | RK34-LFB2        | FUSEIODE                      |             |       |
| D5210        | 1F4G-T2          | FR DIODE                      |             |       |
| D5210        | or PG104RS-T2    | FR DIODE                      |             |       |
| D5210        | or 10ERB20-T2    | FR DIODE                      |             |       |
| D5210        | or 1SR153-400-T2 | FR DIODE                      |             |       |
| D5210        | or ERA18-02-T2   | FR DIODE                      |             |       |
| D5211        | ERA18-02-T2      | FR DIODE                      |             |       |
| D5211        | or 1SR153-400-T2 | FR DIODE                      |             |       |
| D5211        | or 10ERB20-T2    | FR DIODE                      |             |       |
| D5211        | or 1F4G-T2       | FR DIODE                      |             |       |
| D5212        | D1FS4A-X         | SB DIODE                      |             |       |
| D5213        | 1F4G-T2          | FR DIODE                      |             |       |
| D5213        | or 10ERB20-T2    | FR DIODE                      |             |       |
| D5213        | or ERA18-02-T2   | FR DIODE                      |             |       |
| D5213        | or AU01Z-T2      | FR DIODE                      |             |       |
| D5213        | or 1SR153-400-T2 | FR DIODE                      |             |       |
| D5301        | MTZJ15A-T2       | Z DIODE                       |             |       |

| △ Symbol No. | Part No.          | Part Name     | Description      | Local |
|--------------|-------------------|---------------|------------------|-------|
| D5301        | or RD15ES/B1/-T2  | Z DIODE       |                  |       |
| D5303        | MTZJ12C-T2        | Z DIODE       |                  |       |
| D5303        | or RD12ES/B3/-T2  | Z DIODE       |                  |       |
| D5304        | MTZJ5.6C-T2       | Z DIODE       |                  |       |
| D5304        | or RD5.6ES/B3/-T2 | Z DIODE       |                  |       |
| D5306        | RK34-LFB2         | FUSEIODE      |                  |       |
| D5307        | 1SS355-X          | SI DIODE      |                  |       |
| △ PC5101     | PC123Y22FZ        | PHOTO COUPLER |                  |       |
| △ C5001      | QFZ9073-683       | MM CAPACITOR  | 0.068uF AC250V M |       |
| △ C5002      | QFZ9073-223       | MM CAPACITOR  | 0.022uF AC250V M |       |
| C5003        | QEZO374-107       | E CAPACITOR   | 100uF 400V M     |       |
| △ C5004      | QCZ9079-222       | C CAPACITOR   | 2200pF AC250V M  |       |
| C5101        | QCZ0339-101Z      | C CAPACITOR   | 100pF 1kV K      |       |
| C5102        | QCZ0349-472Z      | C CAPACITOR   | 4700pF 1kV K     |       |
| C5103        | QEMU1VM-276Z      | E CAPACITOR   | 27uF 35V M       |       |
| C5104        | QCZ0136-471Z      | C CAPACITOR   | 470pF 1kV K      |       |
| C5105        | QFLC1HJ-471Z      | M CAPACITOR   | 470pF 50V J      |       |
| C5106        | NCB31HK-103X      | C CAPACITOR   | 0.01uF 50V K     |       |
| C5107        | NCB31HK-221X      | C CAPACITOR   | 220pF 50V K      |       |
| C5202        | QETN2AM-475Z      | E CAPACITOR   | 4.7uF 100V M     |       |
| C5203        | QEMT1CM-687       | E CAPACITOR   | 680uF 16V M      |       |
| C5204        | QEMT1CM-687       | E CAPACITOR   | 680uF 16V M      |       |
| C5205        | QEMT1AM-128       | E CAPACITOR   | 1200uF 10V M     |       |
| C5206        | QEMT1AM-128       | E CAPACITOR   | 1200uF 10V M     |       |
| C5207        | QEMT1CM-687       | E CAPACITOR   | 680uF 16V M      |       |
| C5208        | QEMT1AM-128       | E CAPACITOR   | 1200uF 10V M     |       |
| C5209        | QEMU1HM-186Z      | E CAPACITOR   | 18uF 50V M       |       |
| C5210        | QEMX0JM-227Z      | E CAPACITOR   | 220uF 6.3V M     |       |
| C5301        | QFVF1HJ-154Z      | MF CAPACITOR  | 0.15uF 50V J     |       |
| C5302        | QFLC1HJ-333Z      | M CAPACITOR   | 0.033uF 50V J    |       |
| C5303        | QETN1CM-107Z      | E CAPACITOR   | 100uF 16V M      |       |
| C5304        | QETN1CM-107Z      | E CAPACITOR   | 100uF 16V M      |       |
| C5305        | QETN1AM-107Z      | E CAPACITOR   | 100uF 10V M      |       |
| C5306        | QETN1AM-107Z      | E CAPACITOR   | 100uF 10V M      |       |
| C5307        | QETN1AM-107Z      | E CAPACITOR   | 100uF 10V M      |       |
| C5308        | QETN1AM-107Z      | E CAPACITOR   | 100uF 10V M      |       |
| C5310        | QETN1HM-225Z      | E CAPACITOR   | 2.2uF 50V M      |       |
| C5311        | QETN1CM-107Z      | E CAPACITOR   | 100uF 16V M      |       |
| C5312        | QETN1AM-107Z      | E CAPACITOR   | 100uF 10V M      |       |
| C5315        | NCB31HK-103X      | C CAPACITOR   | 0.01uF 50V K     |       |
| R5101        | QRG02GJ-683       | OMF RESISTOR  | 68kΩ 2W J        |       |
| R5102        | NRSA63J-122X      | MG RESISTOR   | 1.2kΩ 1/16W J    |       |
| R5103        | QRE141J-684Y      | C RESISTOR    | 680kΩ 1/4W J     |       |
| R5104        | NRSA63J-102X      | MG RESISTOR   | 1kΩ 1/16W J      |       |
| R5105        | QRE141J-680Y      | C RESISTOR    | 68Ω 1/4W J       |       |
| R5106        | QRE141J-392Y      | C RESISTOR    | 3.9kΩ 1/4W J     |       |
| R5107        | NRSA63J-681X      | MG RESISTOR   | 680Ω 1/16W J     |       |
| R5108        | QRT01DJ-R27X      | MF RESISTOR   | 0.27Ω 1W J       |       |
| △ R5109      | QRZ9051-470X      | FUSI RESISTOR | 47Ω 1/4W J       |       |
| R5301        | NRSA63J-221X      | MG RESISTOR   | 220Ω 1/16W J     |       |
| R5302        | NRSA63J-472X      | MG RESISTOR   | 4.7kΩ 1/16W J    |       |
| R5303        | NRVA63D-152X      | CMF RESISTOR  | 1.5kΩ 1/16W D    |       |
| R5304        | NRVA63D-682X      | CMF RESISTOR  | 6.8kΩ 1/16W D    |       |
| R5305        | NRVA63D-243X      | CMF RESISTOR  | 24kΩ 1/16W D     |       |
| R5306        | NRVA63D-392X      | CMF RESISTOR  | 3.9kΩ 1/16W D    |       |
| R5308        | NRSA63J-122X      | MG RESISTOR   | 1.2kΩ 1/16W J    |       |
| R5309        | NRSA63J-102X      | MG RESISTOR   | 1kΩ 1/16W J      |       |
| R5312        | NRSA63J-103X      | MG RESISTOR   | 10kΩ 1/16W J     |       |
| R5313        | NRSA63J-103X      | MG RESISTOR   | 10kΩ 1/16W J     |       |
| R5314        | NRSA63J-471X      | MG RESISTOR   | 470Ω 1/16W J     |       |
| R5315        | QRE121J-101Y      | C RESISTOR    | 100Ω 1/2W J      |       |
| R5316        | NRSA63J-103X      | MG RESISTOR   | 10kΩ 1/16W J     |       |
| R5317        | NRSA63J-102X      | MG RESISTOR   | 1kΩ 1/16W J      |       |
| R5325        | QRE141J-150Y      | C RESISTOR    | 15Ω 1/4W J       |       |
| △ R5326      | QRZ9051-470X      | FUSI RESISTOR | 47Ω 1/4W J       |       |
| R5327        | NRSA63J-103X      | MG RESISTOR   | 10kΩ 1/16W J     |       |
| R5328        | NRSA02J-471X      | MG RESISTOR   | 470Ω 1/10W J     |       |
| R5329        | NRSA63J-103X      | MG RESISTOR   | 10kΩ 1/16W J     |       |
| R5330        | QRE141J-471Y      | C RESISTOR    | 470Ω 1/4W J      |       |
| L5201        | QQR0934-001       | CHOKE COIL    |                  |       |
| L5202        | QQR0934-001       | CHOKE COIL    |                  |       |
| L5204        | QQR0934-001       | CHOKE COIL    |                  |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.       | Part Name     | Description     | Local |
|--------------|----------------|---------------|-----------------|-------|
| L5205        | QQR0934-001    | CHOKE COIL    |                 |       |
| L5206        | QQR0934-001    | CHOKE COIL    |                 |       |
| L5207        | QQR0934-001    | CHOKE COIL    |                 |       |
| L5301        | QQR0678-001Z   | FERRITE BEADS |                 |       |
| L5302        | QQR0678-001Z   | FERRITE BEADS |                 |       |
| △ T5001      | QQS0289-001    | SW TRANSF     |                 |       |
| B5305        | NRSA63J-0R0X   | MG RESISTOR   | 0Ω 1/16W J      |       |
| B5307        | NRSA63J-0R0X   | MG RESISTOR   | 0Ω 1/16W J      |       |
| △ CN5001     | QGA7901C3-02   | CONNECTOR     | W-B (1-2)       |       |
| CN5301       | QGF1208C1-15   | CONNECTOR     | FFC/FPC (1-15)  |       |
| CN5302       | QGA2001C1-02   | CONNECTOR     | W-B (1-2)       |       |
| CN5303       | QGA2501C1-04   | CONNECTOR     | W-B (1-4)       |       |
| CN5304       | QGF1208C1-19   | CONNECTOR     | FFC/FPC (1-19)  |       |
| △ CP5301     | QMFZ049-1R5Z-E | FUSE          | 1.5A 125V       |       |
| △ CP5302     | QMFZ049-2R0Z-E | FUSE          | 2A 125V         |       |
| △ F5001      | QMF51E2-2R0-J1 | FUSE          | 2A AC250V       |       |
| FC5001       | QNG0020-001Z   | FUSE CLIP     |                 |       |
| FC5002       | QNG0020-001Z   | FUSE CLIP     |                 |       |
| HS1          | PEME0889-01-01 | HEAT SINK     | IC5101          |       |
| △ LF5002     | QQR1031-001    | LINE FILTER   |                 |       |
| OT1          | QYTDST3008ZA   | TAP SCREW     | M3 x 8mm IC5101 |       |
| ST1          | PU59391        | STYLE PIN     |                 |       |
| W52          | NRSA63J-0R0X   | MG RESISTOR   | 0Ω 1/16W J      |       |

## Digital board

Block No. [0][2]

| △ Symbol No. | Part No.           | Part Name          | Description | Local |
|--------------|--------------------|--------------------|-------------|-------|
| PW1          | LPA10247-06D       | DIGITAL BOARD ASSY |             |       |
| IC1001       | JCP8059            | IC                 |             |       |
| IC1002       | HY57V161610ET-8    | IC                 |             |       |
| IC1002       | or K4S161622H-UC60 | IC                 |             |       |
| IC1002       | or M12L16161A-7TG  | IC                 |             |       |
| IC1002       | or HY57V161610ETP7 | IC                 |             |       |
| IC1002       | or MT48LC1M16TG-7S | IC                 |             |       |
| IC1201       | LPN0944-001A       | IC(FLASH)          | (SERVICE)   |       |
| IC1202       | SN74LVC373APW-X    | IC(DIGITAL)        |             |       |
| IC1203       | SN74LVC373APW-X    | IC(DIGITAL)        |             |       |
| IC1401       | DMN8652-B0         | IC(DIGITAL)        |             |       |
| IC1404       | SN74HCT08APW-X     | IC                 |             |       |
| IC1405       | SN74LV08APW-X      | IC                 |             |       |
| IC1601       | HY5DU561622CT-J    | IC                 |             |       |
| IC1601       | or HY5DU561622DT-J | IC                 |             |       |
| IC1602       | HY5DU561622CT-J    | IC                 |             |       |
| IC1602       | or HY5DU561622DT-J | IC                 |             |       |
| IC1603       | HY5DU561622CT-J    | IC                 |             |       |
| IC1603       | or HY5DU561622DT-J | IC                 |             |       |
| IC1604       | HY5DU561622CT-J    | IC                 |             |       |
| IC1604       | or HY5DU561622DT-J | IC                 |             |       |
| IC1701       | PQ015YZ01Z-X       | IC                 |             |       |
| IC1801       | TSB41AB2PAP        | IC                 |             |       |
| Q1002        | 2SA1037AK/QR/-X    | TRANSISTOR         |             |       |
| Q1002        | or 2SA1530A/QR/-X  | TRANSISTOR         |             |       |
| Q1002        | or 2SB709A/QR/-X   | TRANSISTOR         |             |       |
| Q1003        | 2SA1037AK/QR/-X    | TRANSISTOR         |             |       |
| Q1003        | or 2SA1530A/QR/-X  | TRANSISTOR         |             |       |
| Q1003        | or 2SB709A/QR/-X   | TRANSISTOR         |             |       |
| Q1004        | 2SA1037AK/QR/-X    | TRANSISTOR         |             |       |
| Q1004        | or 2SA1530A/QR/-X  | TRANSISTOR         |             |       |
| Q1004        | or 2SB709A/QR/-X   | TRANSISTOR         |             |       |
| Q1005        | 2SA1037AK/QR/-X    | TRANSISTOR         |             |       |
| Q1005        | or 2SA1530A/QR/-X  | TRANSISTOR         |             |       |
| Q1005        | or 2SB709A/QR/-X   | TRANSISTOR         |             |       |
| Q1008        | UMZ1N-W            | PAIR TRANSISTOR    |             |       |
| Q1008        | or BC847PN-X       | PAIR TRANSISTOR    |             |       |
| Q1008        | or BC846PN-X       | PAIR TRANSISTOR    |             |       |
| Q1009        | 2SC2412K/QRS/-X    | TRANSISTOR         |             |       |
| Q1009        | or 2SC3928A/QRS/-X | TRANSISTOR         |             |       |
| Q1009        | or 2SD601A/QRS/-X  | TRANSISTOR         |             |       |
| Q1010        | 2SC2412K/QRS/-X    | TRANSISTOR         |             |       |

| △ Symbol No. | Part No.           | Part Name      | Description  | Local |
|--------------|--------------------|----------------|--------------|-------|
| Q1010        | or 2SC3928A/QRS/-X | TRANSISTOR     |              |       |
| Q1010        | or 2SD601A/QRS/-X  | TRANSISTOR     |              |       |
| Q1011        | 2SC2412K/QRS/-X    | TRANSISTOR     |              |       |
| Q1011        | or 2SC3928A/QRS/-X | TRANSISTOR     |              |       |
| Q1011        | or 2SD601A/QRS/-X  | TRANSISTOR     |              |       |
| D1001        | 1SS355-X           | SI DIODE       |              |       |
| D1001        | or MA111-X         | SI DIODE       |              |       |
| D1002        | 1SS355-X           | SI DIODE       |              |       |
| D1002        | or MA111-X         | SI DIODE       |              |       |
| D1401        | 1SS355-X           | SI DIODE       |              |       |
| D1401        | or MA111-X         | SI DIODE       |              |       |
| D1402        | 1SS355-X           | SI DIODE       |              |       |
| D1402        | or MA111-X         | SI DIODE       |              |       |
| D1403        | 1SS355-X           | SI DIODE       |              |       |
| D1403        | or MA111-X         | SI DIODE       |              |       |
| C1001        | NBE20JM-226X       | TA E CAPACITOR | 22uF 6.3V M  |       |
| C1002        | NBE20JM-106X       | TA E CAPACITOR | 10uF 6.3V M  |       |
| C1003        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1004        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1005        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1007        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1008        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1009        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1012        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1014        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1015        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1017        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1018        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1019        | NCB31EK-103X       | C CAPACITOR    | 0.01uF 25V K |       |
| C1020        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1026        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1030        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1032        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1033        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1034        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1035        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1036        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1038        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1039        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1041        | NBE20JM-106X       | TA E CAPACITOR | 10uF 6.3V M  |       |
| C1042        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1043        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1044        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1045        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1046        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1047        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1051        | NBE20JM-106X       | TA E CAPACITOR | 10uF 6.3V M  |       |
| C1052        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1053        | NCB31HK-102X       | C CAPACITOR    | 1000pF 50V K |       |
| C1060        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1062        | NCB31EK-103X       | C CAPACITOR    | 0.01uF 25V K |       |
| C1065        | NCB20JM-475X       | C CAPACITOR    | 4.7uF 6.3V M |       |
| C1077        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1080        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1081        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1082        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1083        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1090        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1091        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1092        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1093        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1094        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1095        | NBE20JM-106X       | TA E CAPACITOR | 10uF 6.3V M  |       |
| C1096        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1097        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1098        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1203        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1204        | NEHM0JM-476X       | E CAPACITOR    | 47uF 6.3V M  |       |
| C1206        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1207        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1401        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1402        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1404        | NEHM0JM-476X       | E CAPACITOR    | 47uF 6.3V M  |       |
| C1405        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1406        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |
| C1408        | NCB31CK-104X       | C CAPACITOR    | 0.1uF 16V K  |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.     | Part Name      | Description  | Local | △ Symbol No. | Part No.     | Part Name      | Description   | Local |
|--------------|--------------|----------------|--------------|-------|--------------|--------------|----------------|---------------|-------|
| C1409        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1632        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1411        | NEHM0JM-107X | E CAPACITOR    | 100uF 6.3V M |       | C1633        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1412        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1634        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1413        | NEHM0JM-476X | E CAPACITOR    | 47uF 6.3V M  |       | C1635        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1414        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1636        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1416        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1642        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1417        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1644        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1418        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1646        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1420        | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M  |       | C1650        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1421        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1652        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1422        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1654        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1423        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1656        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1424        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1658        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1425        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1660        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1427        | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M  |       | C1662        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1428        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1701        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1429        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1702        | NEHM0JM-107X | E CAPACITOR    | 100uF 6.3V M  |       |
| C1430        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1703        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1435        | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M  |       | C1704        | NEHM0JM-107X | E CAPACITOR    | 100uF 6.3V M  |       |
| C1436        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1706        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1437        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1707        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1438        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1708        | NBE20JM-476X | TA E CAPACITOR | 47uF 6.3V M   |       |
| C1439        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1710        | NBE20JM-476X | TA E CAPACITOR | 47uF 6.3V M   |       |
| C1442        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1801        | NCB30JK-105X | C CAPACITOR    | 1uF 6.3V K    |       |
| C1444        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1802        | NDC31HJ-271X | C CAPACITOR    | 270pF 50V J   |       |
| C1445        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1803        | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M   |       |
| C1446        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1804        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1447        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1805        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1448        | NCB31EK-103X | C CAPACITOR    | 0.01uF 25V K |       | C1806        | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M   |       |
| C1450        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1807        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1452        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1808        | NDC31HJ-120X | C CAPACITOR    | 12pF 50V J    |       |
| C1453        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1809        | NDC31HJ-120X | C CAPACITOR    | 12pF 50V J    |       |
| C1455        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1811        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1457        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | C1812        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       |
| C1458        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1001        | NRSA63D-221X | MG RESISTOR    | 220Ω 1/16W D  |       |
| C1461        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1002        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1463        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1003        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1464        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1004        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1465        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1005        | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       |
| C1466        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1006        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1467        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1007        | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       |
| C1468        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1009        | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       |
| C1469        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1012        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1470        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1013        | NRSA02J-0R0X | MG RESISTOR    | 0Ω 1/10W J    |       |
| C1471        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1014        | NRSA02J-0R0X | MG RESISTOR    | 0Ω 1/10W J    |       |
| C1472        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1015        | NRSA02J-0R0X | MG RESISTOR    | 0Ω 1/10W J    |       |
| C1473        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1017        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1474        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1018        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1475        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1019        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1601        | NEZ0019-157X | OS E CAPACITOR | 150uF 4V M   |       | R1021        | NRSA63D-332X | MG RESISTOR    | 3.3kΩ 1/16W D |       |
| C1602        | NEZ0019-157X | OS E CAPACITOR | 150uF 4V M   |       | R1022        | NRSA63D-152X | MG RESISTOR    | 1.5kΩ 1/16W D |       |
| C1605        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1024        | NRSA63D-272X | MG RESISTOR    | 2.7kΩ 1/16W D |       |
| C1606        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1027        | NRSA63J-272X | MG RESISTOR    | 2.7kΩ 1/16W J |       |
| C1607        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1028        | NRSA63J-272X | MG RESISTOR    | 2.7kΩ 1/16W J |       |
| C1608        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1029        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1609        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1030        | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       |
| C1610        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1031        | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       |
| C1611        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1032        | NRSA63J-103X | MG RESISTOR    | 10kΩ 1/16W J  |       |
| C1612        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1033        | NRSA63J-471X | MG RESISTOR    | 470Ω 1/16W J  |       |
| C1613        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1035        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1614        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1036        | NRSA63J-102X | MG RESISTOR    | 1kΩ 1/16W J   |       |
| C1615        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1037        | NRSA63D-101X | MG RESISTOR    | 100Ω 1/16W D  |       |
| C1616        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1038        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1617        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1039        | NRSA63J-102X | MG RESISTOR    | 1kΩ 1/16W J   |       |
| C1618        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1040        | NRSA63D-101X | MG RESISTOR    | 100Ω 1/16W D  |       |
| C1619        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1041        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1620        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1042        | NRSA63J-102X | MG RESISTOR    | 1kΩ 1/16W J   |       |
| C1621        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1043        | NRSA63D-151X | MG RESISTOR    | 150Ω 1/16W D  |       |
| C1622        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1044        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       |
| C1623        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1045        | NRSA63J-102X | MG RESISTOR    | 1kΩ 1/16W J   |       |
| C1624        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1046        | NRSA63J-332X | MG RESISTOR    | 3.3kΩ 1/16W J |       |
| C1625        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1047        | NRSA63D-201X | MG RESISTOR    | 200Ω 1/16W D  |       |
| C1626        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1050        | NRSA63J-152X | MG RESISTOR    | 1.5kΩ 1/16W J |       |
| C1627        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1054        | NRSA63D-332X | MG RESISTOR    | 3.3kΩ 1/16W D |       |
| C1628        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1056        | NRSA63J-222X | MG RESISTOR    | 2.2kΩ 1/16W J |       |
| C1629        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1057        | NRSA63J-330X | MG RESISTOR    | 33Ω 1/16W J   |       |
| C1630        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       | R1059        | NRSA63J-471X | MG RESISTOR    | 470Ω 1/16W J  |       |
| C1631        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K  |       |              |              |                |               |       |

| △ Symbol No. | Part No.     | Part Name   | Description   | Local |
|--------------|--------------|-------------|---------------|-------|
| R1479        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1480        | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J  |       |
| R1481        | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J  |       |
| R1482        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1483        | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J  |       |
| R1491        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R1493        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R1494        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R1495        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R1601        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1602        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1603        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1604        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1605        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1606        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1607        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1608        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1613        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1614        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1615        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1616        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1617        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1618        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1619        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1620        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1621        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1622        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1623        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1624        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1625        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1626        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1627        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1628        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1629        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1630        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1631        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1632        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1641        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1642        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1643        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1644        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R1653        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1654        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1655        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1656        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1657        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1658        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1659        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1660        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |
| R1701        | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J  |       |
| R1702        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R1703        | NRSA63D-222X | MG RESISTOR | 2.2kΩ 1/16W D |       |
| R1704        | NRSA63D-222X | MG RESISTOR | 2.2kΩ 1/16W D |       |
| R1801        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R1802        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R1803        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R1804        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R1805        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R1807        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R1809        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R1810        | NRSA63J-394X | MG RESISTOR | 390kΩ 1/16W J |       |
| R1812        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R1813        | NRSA63J-560X | MG RESISTOR | 56Ω 1/16W J   |       |
| R1814        | NRSA63J-560X | MG RESISTOR | 56Ω 1/16W J   |       |
| R1815        | NRSA63J-560X | MG RESISTOR | 56Ω 1/16W J   |       |
| R1816        | NRSA63J-560X | MG RESISTOR | 56Ω 1/16W J   |       |
| R1817        | NRSA63J-512X | MG RESISTOR | 5.1kΩ 1/16W J |       |
| R1818        | NRSA63D-562X | MG RESISTOR | 5.6kΩ 1/16W D |       |
| R1819        | NRSA63D-751X | MG RESISTOR | 750Ω 1/16W D  |       |
| R1820        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R1821        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R1822        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R2101        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R2102        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R2103        | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |       |
| R2104        | NRSA63J-330X | MG RESISTOR | 33Ω 1/16W J   |       |
| R2105        | NRSA63J-820X | MG RESISTOR | 82Ω 1/16W J   |       |
| R2106        | NRSA63J-220X | MG RESISTOR | 22Ω 1/16W J   |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.     | Part Name    | Description     | Local | △ Symbol No. | Part No.      | Part Name     | Description    | Local |
|--------------|--------------|--------------|-----------------|-------|--------------|---------------|---------------|----------------|-------|
| R2107        | NRSA63J-220X | MG RESISTOR  | 22Ω 1/16W J     |       | RA2211       | NRZ0040-330X  | NET RESISTOR  | 33Ω 1/16W J x4 |       |
| R2108        | NRSA63J-820X | MG RESISTOR  | 82Ω 1/16W J     |       | L1004        | NQL144K-100X  | P COIL        | 10uH K         |       |
| R2109        | NRSA63J-220X | MG RESISTOR  | 22Ω 1/16W J     |       | L1801        | NQL144K-100X  | P COIL        | 10uH K         |       |
| R2110        | NRSA63J-820X | MG RESISTOR  | 82Ω 1/16W J     |       | T1801        | NQR0444-001X  | CHOKE COIL    |                |       |
| R2111        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | B1001        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| R2112        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | B1007        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| R2113        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | B1008        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| R2114        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | B1202        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| R2115        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | B1405        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| R2201        | NRSA63J-103X | MG RESISTOR  | 10kΩ 1/16W J    |       | B1802        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| R2202        | NRSA63J-562X | MG RESISTOR  | 5.6kΩ 1/16W J   |       | CN1001       | QGB2027L5-28X | CONNECTOR     | B-B (1-28)     |       |
| R2203        | NRSA63J-472X | MG RESISTOR  | 4.7kΩ 1/16W J   |       | CN1002       | QGB2027L5-20X | CONNECTOR     | B-B (1-20)     |       |
| R2204        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | CN1003       | QGA2001F6-06X | CONNECTOR     | W-B (1-6)      |       |
| R2205        | NRSA63J-820X | MG RESISTOR  | 82Ω 1/16W J     |       | CN1403       | QGF1016C2-04W | CONNECTOR     | FFC/FPC (1-4)  |       |
| R2206        | NRSA63J-220X | MG RESISTOR  | 22Ω 1/16W J     |       | CN1405       | QGF1016F2-04W | CONNECTOR     | FFC/FPC (1-4)  |       |
| R2207        | NRSA63J-220X | MG RESISTOR  | 22Ω 1/16W J     |       | CN1801       | QGB2027L1-10X | CONNECTOR     | B-B (1-10)     |       |
| R2208        | NRSA63J-820X | MG RESISTOR  | 82Ω 1/16W J     |       | CN2101       | QGF0539C1-40W | CONNECTOR     | FFC/FPC (1-40) |       |
| R2209        | NRSA63J-220X | MG RESISTOR  | 22Ω 1/16W J     |       | CN2201       | QGF0539C1-40W | CONNECTOR     | FFC/FPC (1-40) |       |
| R2210        | NRSA63J-820X | MG RESISTOR  | 82Ω 1/16W J     |       | K1001        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| R2211        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | K1002        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| R2212        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | K1003        | NQR0129-002X  | FERRITE BEADS |                |       |
| R2213        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | K1004        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| R2214        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | K1005        | NQR0129-002X  | FERRITE BEADS |                |       |
| R2215        | NRSA63J-330X | MG RESISTOR  | 33Ω 1/16W J     |       | K1006        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| RA1001       | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4   |       | K1007        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| RA1002       | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4   |       | K1008        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| RA1003       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K1009        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| RA1004       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K1010        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1005       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K1011        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1006       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K1012        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1201       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K1013        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1202       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K1014        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1203       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K1015        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1204       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K1016        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1401       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1017        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1402       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1018        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1403       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1019        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1404       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1020        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1405       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1021        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| RA1406       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1022        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| RA1407       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1023        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| RA1408       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1201        | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |       |
| RA1409       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1401        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1410       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1402        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1411       | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J x4 |       | K1403        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1609       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K1404        | NQR0339-001X  | FERRITE BEADS |                |       |
| RA1610       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K1406        | NQR0339-001X  | FERRITE BEADS |                |       |
| RA1611       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K1407        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1612       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K1408        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1613       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K1701        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1614       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K1702        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1615       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K1801        | NRSA02J-0R0X  | MG RESISTOR   | 0Ω 1/10W J     |       |
| RA1616       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K2101        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1617       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2102        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1618       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2103        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1619       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2104        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1620       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2105        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1621       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2106        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1622       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2107        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1623       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2108        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1624       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2109        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1625       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K2110        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1626       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K2111        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1627       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K2112        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1628       | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4  |       | K2113        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1629       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2114        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1630       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2115        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1631       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2116        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1632       | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 |       | K2117        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1801       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K2118        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA1802       | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J x4 |       | K2119        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA2101       | NRZ0040-330X | NET RESISTOR | 33Ω 1/16W J x4  |       | K2120        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA2102       | NRZ0040-330X | NET RESISTOR | 33Ω 1/16W J x4  |       | K2121        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA2103       | NRZ0040-330X | NET RESISTOR | 33Ω 1/16W J x4  |       | K2201        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA2104       | NRZ0040-330X | NET RESISTOR | 33Ω 1/16W J x4  |       | K2202        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA2208       | NRZ0040-330X | NET RESISTOR | 33Ω 1/16W J x4  |       | K2203        | NQR0129-002X  | FERRITE BEADS |                |       |
| RA2209       | NRZ0040-330X | NET RESISTOR | 33Ω 1/16W J x4  |       |              |               |               |                |       |
| RA2210       | NRZ0040-330X | NET RESISTOR | 33Ω 1/16W J x4  |       |              |               |               |                |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.     | Part Name             | Description | Local |
|--------------|--------------|-----------------------|-------------|-------|
| K2204        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2205        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2206        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2207        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2208        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2209        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2210        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2211        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2212        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2213        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2214        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2215        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2216        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2217        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2218        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2219        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2220        | NQR0129-002X | FERRITE BEADS         |             |       |
| K2221        | NQR0129-002X | FERRITE BEADS         |             |       |
| LC1401       | NQR0512-008X | EMI FILTER            |             |       |
| LC1402       | NQR0512-008X | EMI FILTER            |             |       |
| LC1403       | NQR0512-008X | EMI FILTER            |             |       |
| OT1          | LC41656-001A | COOLING SHEET         |             |       |
| SD1          | LP21298-001B | SHIELD FRAME(DIGITAL) |             |       |
| X1401        | NAX0580-001X | CXO                   | 27.0000MHz  |       |
| X1801        | NAX0551-001X | CRYSTAL               | 24.576MHz   |       |

| △ Symbol No. | Part No.           | Part Name        | Description | Local |
|--------------|--------------------|------------------|-------------|-------|
| Q10          | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q10          | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q10          | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q13          | 2SC2412K/QRS/-X    | TRANSISTOR       |             | A     |
| Q13          | or 2SD601A/QRS/-X  | TRANSISTOR       |             | A     |
| Q13          | or 2SC3928A/QRS/-X | TRANSISTOR       |             | A     |
| Q16          | 2SA1037AK/QR/-X    | TRANSISTOR       |             |       |
| Q16          | or 2SB709A/QR/-X   | TRANSISTOR       |             |       |
| Q16          | or 2SA1530A/QR/-X  | TRANSISTOR       |             |       |
| Q207         | 2SA1037AK/QR/-X    | TRANSISTOR       |             |       |
| Q207         | or 2SB709A/QR/-X   | TRANSISTOR       |             |       |
| Q207         | or 2SA1530A/QR/-X  | TRANSISTOR       |             |       |
| Q208         | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q208         | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q208         | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q2001        | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q2001        | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q2001        | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q2002        | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q2002        | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q2002        | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q2003        | DTA144WKA-X        | TRANSISTOR       |             |       |
| Q2003        | or UN211E-X        | DIGI TRANSISTOR  |             |       |
| Q2003        | or RT1P44HC-X      | DIGI TRANSISTOR  |             |       |
| Q2051        | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q2051        | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q2051        | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q2052        | 2SA1037AK/QR/-X    | TRANSISTOR       |             |       |
| Q2052        | or 2SB709A/QR/-X   | TRANSISTOR       |             |       |
| Q2052        | or 2SA1530A/QR/-X  | TRANSISTOR       |             |       |
| Q2053        | DTC144WKA-X        | DIGI TRANSISTOR  |             |       |
| Q2053        | or UN221E-X        | TRANSISTOR       |             |       |
| Q2053        | or RT1N44HC-X      | DIGI TRANSISTOR  |             |       |
| Q2054        | 2SA1037AK/QR/-X    | TRANSISTOR       |             |       |
| Q2054        | or 2SB709A/QR/-X   | TRANSISTOR       |             |       |
| Q2054        | or 2SA1530A/QR/-X  | TRANSISTOR       |             |       |
| Q2055        | DTC144WKA-X        | DIGI TRANSISTOR  |             |       |
| Q2055        | or UN221E-X        | TRANSISTOR       |             |       |
| Q2055        | or RT1N44HC-X      | DIGI TRANSISTOR  |             |       |
| Q2201        | DTA144WKA-X        | TRANSISTOR       |             |       |
| Q2201        | or UN211E-X        | DIGI TRANSISTOR  |             |       |
| Q2201        | or RT1P44HC-X      | DIGI TRANSISTOR  |             |       |
| Q2202        | DTC144WKA-X        | DIGI TRANSISTOR  |             |       |
| Q2202        | or UN221E-X        | TRANSISTOR       |             |       |
| Q2202        | or RT1N44HC-X      | DIGI TRANSISTOR  |             |       |
| Q2203        | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q2203        | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q2203        | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q2204        | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q2204        | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q2204        | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q2255        | DTC114EKA-X        | DIGI TRANSISTOR  |             |       |
| Q2255        | or UN2211-X        | TRANSISTOR       |             |       |
| Q2255        | or RT1N141C-X      | DIGI TRANSISTOR  |             |       |
| Q3004        | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q3004        | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q3004        | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q3007        | UN221E-X           | TRANSISTOR       |             |       |
| Q3007        | or DTC144WKA-X     | DIGI TRANSISTOR  |             |       |
| Q3007        | or RT1N44HC-X      | DIGI TRANSISTOR  |             |       |
| Q3015        | DTC114GKA-X        | DIGI TRANSISTOR  |             |       |
| Q3015        | or DTC144GKA-X     | DIGI TRANSISTOR  |             |       |
| Q3016        | DTC114GKA-X        | DIGI TRANSISTOR  |             |       |
| Q3016        | or DTC144GKA-X     | DIGI TRANSISTOR  |             |       |
| Q3017        | DTC114GKA-X        | DIGI TRANSISTOR  |             |       |
| Q3017        | or DTC144GKA-X     | DIGI TRANSISTOR  |             |       |
| Q3302        | PTZ-NV16A          | IC(PHOTO SENSOR) |             |       |
| Q3303        | PTZ-NV16A          | IC(PHOTO SENSOR) |             |       |
| Q3304        | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q3304        | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q3304        | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q3305        | 2SC2412K/QRS/-X    | TRANSISTOR       |             |       |
| Q3305        | or 2SD601A/QRS/-X  | TRANSISTOR       |             |       |
| Q3305        | or 2SC3928A/QRS/-X | TRANSISTOR       |             |       |
| Q3401        | UN221E-X           | TRANSISTOR       |             |       |
| Q3401        | or DTC144WKA-X     | DIGI TRANSISTOR  |             |       |
| Q3401        | or RT1N44HC-X      | DIGI TRANSISTOR  |             |       |
| Q3901        | UN221E-X           | TRANSISTOR       |             |       |

## Main board

Block No. [0][3]

| △ Symbol No. | Part No.           | Part Name       | Description       | Local   |
|--------------|--------------------|-----------------|-------------------|---------|
| PW1          | LPA10245-07C       | MAIN BOARD ASSY |                   | A       |
| PW1          | LPA10245-06C       | MAIN BOARD ASSY |                   | B       |
| PW1          | LPA10245-04C       | MAIN BOARD ASSY |                   | C,D,E   |
| IC1          | JCP8060-MSA        | IC              |                   |         |
| IC201        | LC74776-9791       | IC              |                   |         |
| △ IC2201     | AN3651FBP          | IC              |                   |         |
| IC2601       | RC4558D-X          | IC              |                   |         |
| IC2602       | BU4052BCF-X        | IC              |                   |         |
| IC2602       | or CD4052BM-X      | IC              |                   |         |
| IC2603       | RC4558D-X          | IC              |                   |         |
| IC2604       | BU4052BCF-X        | IC              |                   |         |
| IC2604       | or CD4052BM-X      | IC              |                   |         |
| IC2605       | RC4558D-X          | IC              |                   |         |
| IC2606       | LA7151             | IC              |                   |         |
| IC2607       | LA7151             | IC              |                   |         |
| IC3001       | HD6432194SAD92F    | IC(MCU)         | MASK              |         |
| IC3002       | S-80827CNNB-G-W    | IC              |                   |         |
| IC3004       | LPN0942-003B-73    | IC(EEPROM)      | *(REFER TO BELOW) | A       |
| IC3004       | LPN0942-002D-72    | IC(EEPROM)      | *(REFER TO BELOW) | B       |
| IC3004       | LPN0942-001D-71    | IC(EEPROM)      | *(REFER TO BELOW) | C,D,E   |
| IC3301       | HD6432194SAD93F    | IC(MCU)         | MASK              | A       |
| IC3301       | HD6432194SAD91F    | IC(MCU)         | MASK              | B,C,D,E |
| IC3302       | S-80827CNNB-G-W    | IC              |                   |         |
| IC3303       | LPN0943-003A-10    | IC(EEPROM)      | *(REFER TO BELOW) | A       |
| IC3303       | LPN0943-002B-02    | IC(EEPROM)      | *(REFER TO BELOW) | B       |
| IC3303       | LPN0943-001A-11    | IC(EEPROM)      | *(REFER TO BELOW) | C,D,E   |
| IC7101       | CD74HC4053PW-X     | IC              |                   |         |
| IC7501       | SN74AHCT08NS-X     | IC              |                   |         |
| IC7501       | or 74VHCT08ASJ-X   | IC              |                   |         |
| Q4           | 2SA1037AK/QR/-X    | TRANSISTOR      |                   | A       |
| Q4           | or 2SB709A/QR/-X   | TRANSISTOR      |                   | A       |
| Q4           | or 2SA1530A/QR/-X  | TRANSISTOR      |                   | A       |
| Q7           | 2SC2412K/QRS/-X    | TRANSISTOR      |                   |         |
| Q7           | or 2SD601A/QRS/-X  | TRANSISTOR      |                   |         |
| Q7           | or 2SC3928A/QRS/-X | TRANSISTOR      |                   |         |
| Q8           | 2SC2412K/QRS/-X    | TRANSISTOR      |                   |         |
| Q8           | or 2SD601A/QRS/-X  | TRANSISTOR      |                   |         |
| Q8           | or 2SC3928A/QRS/-X | TRANSISTOR      |                   |         |
| Q9           | 2SC2412K/QRS/-X    | TRANSISTOR      |                   |         |
| Q9           | or 2SD601A/QRS/-X  | TRANSISTOR      |                   |         |
| Q9           | or 2SC3928A/QRS/-X | TRANSISTOR      |                   |         |

\*The VCR goes to jig RCU mode after replacing the EEPROM and the VCR does not accept some RCU command.

3-14(No.YD048)

Therefore please set the VCR to the user RCU mode after replacing the EEPROM.

The method of setting the VCR to the user RCU mode is written on the service manual.

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.       | Part Name        | Description   | Local   | △ Symbol No. | Part No.     | Part Name    | Description   | Local |
|--------------|----------------|------------------|---------------|---------|--------------|--------------|--------------|---------------|-------|
| Q3901        | or DTC144WKA-X | DIGI TRANSISTOR  |               |         | C50          | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  | A     |
| Q3901        | or RT1N44HC-X  | DIGI TRANSISTOR  |               |         | C56          | NCB31CK-104X | C CAPACITOR  | 0.1uF 16V K   |       |
| Q4001        | UN2211-X       | TRANSISTOR       |               |         | C57          | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| Q4001        | or DTC114EKA-X | DIGI TRANSISTOR  |               |         | C58          | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| Q4001        | or RT1N141C-X  | DIGI TRANSISTOR  |               |         | C59          | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| Q7201        | 2SC1317/RS/-T  | TRANSISTOR       |               |         | C60          | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
|              |                |                  |               |         | C61          | QEK00JM-476Z | E CAPACITOR  | 47uF 6.3V M   |       |
| D201         | NRSA63J-152X   | MG RESISTOR      | 1.5kΩ 1/16W J |         | C62          | QCB11HK-103Y | C CAPACITOR  | 0.01uF 50V K  |       |
| D202         | NRSA63J-101X   | MG RESISTOR      | 100Ω 1/16W J  |         | C63          | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| D203         | NRSA63J-101X   | MG RESISTOR      | 100Ω 1/16W J  |         | C64          | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| D2001        | 1SS133-T2      | SI DIODE         |               |         | C66          | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    | A     |
| D2001        | or 1SS270A-T2  | SI DIODE         |               |         | C71          | QEKJ1HM-105Z | E CAPACITOR  | 1uF 50V M     |       |
| D2251        | 1SS133-T2      | SI DIODE         |               |         | C75          | NDC31HJ-390X | C CAPACITOR  | 39pF 50V J    | A     |
| D2251        | or 1SS270A-T2  | SI DIODE         |               |         | C85          | QCB11HK-103Y | C CAPACITOR  | 0.01uF 50V K  |       |
| D3002        | 1SS133-T2      | SI DIODE         |               |         | C201         | QEKJ0JM-227Z | E CAPACITOR  | 220uF 6.3V M  |       |
| D3002        | or 1SS270A-T2  | SI DIODE         |               |         | C204         | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| D3003        | RD39ES/B3/-T2  | Z DIODE          |               |         | C206         | NDC31HJ-330X | C CAPACITOR  | 33pF 50V J    |       |
| D3003        | or MTZJ39C-T2  | Z DIODE          |               |         | C207         | NDC31HJ-330X | C CAPACITOR  | 33pF 50V J    |       |
| D3004        | 1A3G-T2        | SI DIODE         |               |         | C209         | NCB31AK-474X | C CAPACITOR  | 0.47uF 10V K  |       |
| D3005        | 1A3G-T2        | SI DIODE         |               |         | C210         | NDC31HJ-101X | C CAPACITOR  | 100pF 50V J   |       |
| D3008        | 1SS133-T2      | SI DIODE         |               |         | C211         | NDC31HJ-101X | C CAPACITOR  | 100pF 50V J   |       |
| D3008        | or 1SS270A-T2  | SI DIODE         |               |         | C212         | NCB31CK-104X | C CAPACITOR  | 0.1uF 16V K   |       |
| D3301        | LNB2301L01VI   | LED              |               |         | C213         | QEKJ1EM-475Z | E CAPACITOR  | 4.7uF 25V M   |       |
| D3303        | RD39ES/B3/-T2  | Z DIODE          |               |         | C214         | NCB31AK-224X | C CAPACITOR  | 0.22uF 10V K  |       |
| D3303        | or MTZJ39C-T2  | Z DIODE          |               |         | C215         | NCB31AK-224X | C CAPACITOR  | 0.22uF 10V K  |       |
| D3304        | 1A3G-T2        | SI DIODE         |               |         | C217         | NDC31HJ-560X | C CAPACITOR  | 56pF 50V J    |       |
| D3305        | 1A3G-T2        | SI DIODE         |               |         | C218         | QEKJ1HM-105Z | E CAPACITOR  | 1uF 50V M     |       |
| D4001        | NRSA63J-0R0X   | MG RESISTOR      | 0Ω 1/16W J    |         | C222         | QEKJ1HM-105Z | E CAPACITOR  | 1uF 50V M     |       |
| D4002        | NRSA63J-0R0X   | MG RESISTOR      | 0Ω 1/16W J    |         | C225         | QEKJ0JM-227Z | E CAPACITOR  | 220uF 6.3V M  |       |
| D7301        | 1A3G-T2        | SI DIODE         |               |         | C2001        | QEKJ1HM-475Z | E CAPACITOR  | 4.7uF 50V M   |       |
|              |                |                  |               |         | C2002        | QEKJ1HM-105Z | E CAPACITOR  | 1uF 50V M     |       |
| PC3001       | RPI-304J       | IC(PHOTO SENSOR) |               |         | C2003        | QEKJ0JM-476Z | E CAPACITOR  | 47uF 6.3V M   |       |
| PC3002       | RPI-304J       | IC(PHOTO SENSOR) |               |         | C2005        | QEKJ1HM-475Z | E CAPACITOR  | 4.7uF 50V M   |       |
|              |                |                  |               |         | C2006        | NCB31EK-682X | C CAPACITOR  | 6800pF 25V K  |       |
| C1           | NDC31HJ-151X   | C CAPACITOR      | 150pF 50V J   |         | C2007        | QEKJ1CM-226Z | E CAPACITOR  | 22uF 16V M    |       |
| C2           | NDC31HJ-390X   | C CAPACITOR      | 39pF 50V J    | A       | C2008        | QEKJ1HM-475Z | E CAPACITOR  | 4.7uF 50V M   |       |
| C2           | NDC31HJ-470X   | C CAPACITOR      | 47pF 50V J    | B,C,D,E | C2009        | NCB31HK-122X | C CAPACITOR  | 1200pF 50V K  |       |
| C3           | NDC31HJ-7R0X   | C CAPACITOR      | 7pF 50V J     | A       | C2010        | NCB31HK-152X | C CAPACITOR  | 1500pF 50V K  |       |
| C4           | QEKJ1EM-106Z   | E CAPACITOR      | 10uF 25V M    |         | C2011        | QEKJ1HM-475Z | E CAPACITOR  | 4.7uF 50V M   |       |
| C5           | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2012        | QEKJ1HM-475Z | E CAPACITOR  | 4.7uF 50V M   |       |
| C6           | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2013        | NDC31HJ-331X | C CAPACITOR  | 330pF 50V J   |       |
| C7           | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2051        | NDC31HJ-331X | C CAPACITOR  | 330pF 50V J   |       |
| C8           | NCF31AZ-105X   | C CAPACITOR      | 1uF 10V Z     |         | C2052        | QFV61HJ-823Z | MF CAPACITOR | 0.082uF 50V J |       |
| C9           | QEKJ1HM-225Z   | E CAPACITOR      | 2.2uF 50V M   |         | C2053        | NCB31HK-472X | C CAPACITOR  | 4700pF 50V K  |       |
| C10          | QEKJ0JM-476Z   | E CAPACITOR      | 47uF 6.3V M   |         | C2054        | NCB31EK-223X | C CAPACITOR  | 0.022uF 25V K |       |
| C11          | NCF31AZ-105X   | C CAPACITOR      | 1uF 10V Z     |         | C2055        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C12          | NCF31AZ-105X   | C CAPACITOR      | 1uF 10V Z     |         | C2201        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C13          | NCF31AZ-105X   | C CAPACITOR      | 1uF 10V Z     |         | C2202        | QEKJ1HM-475Z | E CAPACITOR  | 4.7uF 50V M   |       |
| C14          | NCF31AZ-105X   | C CAPACITOR      | 1uF 10V Z     |         | C2203        | QEKJ1HM-475Z | E CAPACITOR  | 4.7uF 50V M   |       |
| C15          | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2204        | QEKJ0JM-336Z | E CAPACITOR  | 33uF 6.3V M   |       |
| C17          | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2205        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C19          | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2206        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C20          | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2207        | NCB31EK-153X | C CAPACITOR  | 0.015uF 25V K |       |
| C22          | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2208        | NCB31EK-153X | C CAPACITOR  | 0.015uF 25V K |       |
| C24          | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2209        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C25          | QEKJ1HM-335Z   | E CAPACITOR      | 3.3uF 50V M   |         | C2210        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C26          | QEKJ1EM-106Z   | E CAPACITOR      | 10uF 25V M    |         | C2211        | QEKJ0JM-336Z | E CAPACITOR  | 33uF 6.3V M   |       |
| C27          | NCB31EK-103X   | C CAPACITOR      | 0.01uF 25V K  |         | C2212        | QEKJ0JM-476Z | E CAPACITOR  | 47uF 6.3V M   |       |
| C29          | NCB31EK-103X   | C CAPACITOR      | 0.01uF 25V K  | A       | C2214        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C30          | QCB11HK-331Y   | C CAPACITOR      | 330pF 50V K   |         | C2215        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C31          | QEKJ0JM-476Z   | E CAPACITOR      | 47uF 6.3V M   |         | C2216        | QEKJ1CM-476Z | E CAPACITOR  | 47uF 16V M    |       |
| C32          | NCB31EK-103X   | C CAPACITOR      | 0.01uF 25V K  |         | C2220        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C33          | QEKJ1EM-106Z   | E CAPACITOR      | 10uF 25V M    |         | C2221        | NCB31EK-223X | C CAPACITOR  | 0.022uF 25V K |       |
| C34          | NCB31EK-103X   | C CAPACITOR      | 0.01uF 25V K  |         | C2222        | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| C35          | QCB11HK-103Y   | C CAPACITOR      | 0.01uF 50V K  |         | C2223        | NCB31CK-473X | C CAPACITOR  | 0.047uF 16V K |       |
| C36          | QEKJ1HM-105Z   | E CAPACITOR      | 1uF 50V M     |         | C2224        | NCB31CK-473X | C CAPACITOR  | 0.047uF 16V K |       |
| C37          | NDC31HJ-4R0X   | C CAPACITOR      | 4pF 50V J     |         | C2225        | NCB30JK-105X | C CAPACITOR  | 1uF 6.3V K    |       |
| C38          | NCB31EK-103X   | C CAPACITOR      | 0.01uF 25V K  |         | C2226        | NCB30JK-105X | C CAPACITOR  | 1uF 6.3V K    |       |
| C39          | QEKJ0JM-476Z   | E CAPACITOR      | 47uF 6.3V M   |         | C2227        | QEKJ1EM-106Z | E CAPACITOR  | 10uF 25V M    |       |
| C40          | NCB31EK-103X   | C CAPACITOR      | 0.01uF 25V K  |         | C2251        | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| C41          | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2252        | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| C43          | QEKJ1HM-335Z   | E CAPACITOR      | 3.3uF 50V M   |         | C2253        | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| C44          | QEKJ1HM-225Z   | E CAPACITOR      | 2.2uF 50V M   |         | C2254        | QEKJ0JM-476Z | E CAPACITOR  | 47uF 6.3V M   |       |
| C45          | NCB31EK-472X   | C CAPACITOR      | 4700pF 25V K  |         | C2255        | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| C46          | NCB31CK-104X   | C CAPACITOR      | 0.1uF 16V K   |         | C2256        | NCB31EK-103X | C CAPACITOR  | 0.01uF 25V K  |       |
| C47          | QEKJ1HM-474Z   | E CAPACITOR      | 0.47uF 50V M  |         | C2257        | QCB11HK-103Y | C CAPACITOR  | 0.01uF 50V K  |       |
| C48          | NCB31EK-223X   | C CAPACITOR      | 0.022uF 25V K |         | C2258        | NDC31HJ-181X | C CAPACITOR  | 180pF 50V J   |       |
| C49          | QEKJ1HM-475Z   | E CAPACITOR      | 4.7uF 50V M   |         | C2259        | QEKJ1HM-334Z | E CAPACITOR  | 0.33uF 50V M  |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.     | Part Name      | Description   | Local | △ Symbol No. | Part No.     | Part Name   | Description   | Local   |
|--------------|--------------|----------------|---------------|-------|--------------|--------------|-------------|---------------|---------|
| C2261        | NDC31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | C7117        | NDC31HJ-470X | C CAPACITOR | 47pF 50V J    |         |
| C2262        | NDC31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | C7118        | NDC31HJ-470X | C CAPACITOR | 47pF 50V J    |         |
| C2601        | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | C7119        | NDC31HJ-470X | C CAPACITOR | 47pF 50V J    |         |
| C2602        | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | C7201        | QEKJ0JM-227Z | E CAPACITOR | 220uF 6.3V M  |         |
| C2603        | QEKJ1EM-106Z | E CAPACITOR    | 10uF 25V M    |       | C7501        | QEKJ0JM-107Z | E CAPACITOR | 100uF 6.3V M  |         |
| C2604        | QEKJ1EM-106Z | E CAPACITOR    | 10uF 25V M    |       | C7502        | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |         |
| C2605        | QEKJ1HM-105Z | E CAPACITOR    | 1uF 50V M     |       | C7503        | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M   |         |
| C2606        | QEKJ1HM-105Z | E CAPACITOR    | 1uF 50V M     |       | C7504        | NDC31HJ-151X | C CAPACITOR | 150pF 50V J   |         |
| C2607        | QEKJ1HM-475Z | E CAPACITOR    | 4.7uF 50V M   |       | C7505        | NDC31HJ-151X | C CAPACITOR | 150pF 50V J   |         |
| C2608        | QEKJ1HM-475Z | E CAPACITOR    | 4.7uF 50V M   |       | C7506        | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |         |
| C2609        | QEKJ1HM-105Z | E CAPACITOR    | 1uF 50V M     |       | C7507        | QEKJ0JM-107Z | E CAPACITOR | 100uF 6.3V M  |         |
| C2610        | QEKJ1HM-105Z | E CAPACITOR    | 1uF 50V M     |       | C7508        | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |         |
| C2611        | QEKJ1EM-106Z | E CAPACITOR    | 10uF 25V M    |       | C7509        | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |         |
| C2612        | QEKJ1HM-105Z | E CAPACITOR    | 1uF 50V M     |       |              |              |             |               |         |
| C2613        | QEKJ1HM-105Z | E CAPACITOR    | 1uF 50V M     |       | R1           | NRSA63J-622X | MG RESISTOR | 6.2kΩ 1/16W J |         |
| C2614        | QEKJ1HM-475Z | E CAPACITOR    | 4.7uF 50V M   |       | R2           | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J |         |
| C2615        | QEKJ1HM-475Z | E CAPACITOR    | 4.7uF 50V M   |       | R3           | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | A       |
| C2616        | QEKJ1HM-105Z | E CAPACITOR    | 1uF 50V M     |       | R3           | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | B,C,D,E |
| C2617        | QEKJ1HM-105Z | E CAPACITOR    | 1uF 50V M     |       | R5           | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J  | A       |
| C2618        | QEKJ1EM-106Z | E CAPACITOR    | 10uF 25V M    |       | R11          | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |         |
| C2651        | QEKJ1CM-476Z | E CAPACITOR    | 47uF 16V M    |       | R12          | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| C2653        | QEKJ1CM-476Z | E CAPACITOR    | 47uF 16V M    |       | R13          | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   | A       |
| C3007        | NCB30JK-105X | C CAPACITOR    | 1uF 6.3V K    |       | R17          | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J  | A       |
| C3010        | QE20244-10A  | EDL CAPACITOR  | 0.1F 5.5V Z   |       | R21          | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |         |
| C3014        | QEKJ0JM-476Z | E CAPACITOR    | 47uF 6.3V M   |       | R22          | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |         |
| C3015        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R23          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    | A       |
| C3016        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R26          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    | A       |
| C3022        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R28          | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   | A       |
| C3024        | NDC31HJ-160X | C CAPACITOR    | 16pF 50V J    |       | R35          | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J  | A       |
| C3025        | QAT3725-300Z | TRIM CAPACITOR | 30pF 50V J    |       | R36          | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| C3027        | QEKJ1EM-106Z | E CAPACITOR    | 10uF 25V M    |       | R37          | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J  |         |
| C3030        | QEKJ0JM-476Z | E CAPACITOR    | 47uF 6.3V M   |       | R38          | NRSA63J-685X | MG RESISTOR | 6.8kΩ 1/16W J |         |
| C3031        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R41          | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |         |
| C3032        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R42          | QRE141J-471Y | C RESISTOR  | 470Ω 1/4W J   |         |
| C3033        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R43          | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |         |
| C3036        | NDC31HJ-180X | C CAPACITOR    | 18pF 50V J    |       | R201         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| C3037        | NDC31HJ-120X | C CAPACITOR    | 12pF 50V J    |       | R202         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| C3038        | QEKJ0JM-476Z | E CAPACITOR    | 47uF 6.3V M   |       | R208         | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |         |
| C3039        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R209         | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |         |
| C3042        | QETN0JM-477Z | E CAPACITOR    | 470uF 6.3V M  |       | R210         | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |         |
| C3050        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R211         | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |         |
| C3054        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R212         | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J  |         |
| C3304        | NCB31EK-473X | C CAPACITOR    | 0.047uF 25V K |       | R213         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| C3310        | QE20244-229  | EDL CAPACITOR  | 0.022F 5.5V Z |       | R216         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| C3312        | QEKJ0JM-476Z | E CAPACITOR    | 47uF 6.3V M   |       | R224         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |         |
| C3315        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R225         | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |         |
| C3316        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R226         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| C3322        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R2003        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |         |
| C3324        | NDC31HJ-120X | C CAPACITOR    | 12pF 50V J    |       | R2005        | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J  |         |
| C3327        | QERF1CM-106Z | E CAPACITOR    | 10uF 16V M    |       | R2007        | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |         |
| C3330        | QERF1CM-476Z | E CAPACITOR    | 47uF 16V M    |       | R2008        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| C3331        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R2010        | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J  |         |
| C3332        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R2013        | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J  |         |
| C3333        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R2014        | NRSA63J-394X | MG RESISTOR | 390kΩ 1/16W J |         |
| C3336        | NDC31HJ-180X | C CAPACITOR    | 18pF 50V J    |       | R2015        | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J  |         |
| C3337        | NDC31HJ-120X | C CAPACITOR    | 12pF 50V J    |       | R2016        | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J  |         |
| C3341        | NDC31HJ-180X | C CAPACITOR    | 18pF 50V J    |       | R2017        | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |         |
| C3342        | QETJ0JM-477Z | E CAPACITOR    | 470uF 6.3V M  |       | R2018        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| C3350        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R2019        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| C3354        | NCB31CK-104X | C CAPACITOR    | 0.1uF 16V K   |       | R2021        | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J  |         |
| C3355        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R2022        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| C3371        | QEKJ1HM-336Z | E CAPACITOR    | 33uF 50V M    |       | R2023        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| C4002        | NCB31HK-103X | C CAPACITOR    | 0.01uF 50V K  |       | R2053        | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J |         |
| C4004        | QERF1CM-226Z | E CAPACITOR    | 22uF 16V M    |       | R2054        | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J  |         |
| C4006        | QERF0JM-476Z | E CAPACITOR    | 47uF 6.3V M   |       | R2055        | NRSA63J-3R3X | MG RESISTOR | 3.3Ω 1/16W J  |         |
| C4008        | NCB30JK-105X | C CAPACITOR    | 1uF 6.3V K    |       | R2056        | QRE141J-820Y | C RESISTOR  | 82Ω 1/4W J    |         |
| C4009        | NRSA63J-0R0X | MG RESISTOR    | 0Ω 1/16W J    |       | R2057        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |         |
| C4010        | NCB31EK-223X | C CAPACITOR    | 0.022uF 25V K |       | R2058        | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |         |
| C4011        | NCB31EK-104X | C CAPACITOR    | 0.1uF 25V K   |       | R2059        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |         |
| C4012        | NCB31CK-224X | C CAPACITOR    | 0.22uF 16V K  |       | R2060        | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |         |
| C4014        | NDC31HJ-101X | C CAPACITOR    | 100pF 50V J   |       | R2201        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |         |
| C4015        | NDC31HJ-221X | C CAPACITOR    | 220pF 50V J   |       | R2202        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |         |
| C4018        | NCB31HK-102X | C CAPACITOR    | 1000pF 50V K  |       | R2203        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |         |
| C4031        | QEKJ1CM-336Z | E CAPACITOR    | 33uF 16V M    |       | R2204        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |         |
| C7110        | NCB31EK-103X | C CAPACITOR    | 0.01uF 25V K  |       | R2205        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |         |
| C7111        | QEKJ0JM-476Z | E CAPACITOR    | 47uF 6.3V M   |       | R2206        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |         |
| C7112        | NCB31EK-103X | C CAPACITOR    | 0.01uF 25V K  |       | R2207        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |         |
| C7116        | NDC31HJ-470X | C CAPACITOR    | 47pF 50V J    |       | R2208        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |         |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.     | Part Name   | Description   | Local | △ Symbol No. | Part No.     | Part Name   | Description   | Local   |
|--------------|--------------|-------------|---------------|-------|--------------|--------------|-------------|---------------|---------|
| R2209        | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J  |       | R3025        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2210        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R3029        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2211        | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J |       | R3031        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2212        | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J |       | R3032        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2213        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R3034        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2214        | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J  |       | R3035        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2215        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3036        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2218        | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |       | R3039        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2219        | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J |       | R3040        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2220        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R3041        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2222        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R3042        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2223        | NRSA63J-511X | MG RESISTOR | 510Ω 1/16W J  |       | R3044        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2224        | NRSA63J-511X | MG RESISTOR | 510Ω 1/16W J  |       | R3046        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2225        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R3047        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2226        | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       | R3048        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2227        | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J  |       | R3049        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2228        | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       | R3050        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2229        | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J  |       | R3051        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2230        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R3052        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2231        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |       | R3053        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2232        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R3054        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2233        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |       | R3055        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2234        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R3059        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2239        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3060        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2240        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3061        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2241        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R3062        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| R2242        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |       | R3063        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2243        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R3066        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R2244        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |       | R3069        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |         |
| R2251        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R3071        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| R2252        | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J  |       | R3072        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2253        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R3073        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2255        | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       | R3074        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   | A       |
| R2601        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R3075        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |         |
| R2602        | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |       | R3076        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |         |
| R2603        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R3077        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2604        | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       | R3078        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2605        | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       | R3079        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2606        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R3080        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2607        | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |       | R3081        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R2608        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R3083        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2609        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R3086        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2610        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R3087        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2611        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R3088        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2612        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3089        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2613        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3090        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2614        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3091        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2615        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3092        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2631        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R3093        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2632        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R3094        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2633        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | R3095        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2634        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3096        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2635        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3097        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R2652        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3098        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2653        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3107        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2654        | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J  |       | R3108        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |         |
| R2655        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R3213        | NRSA63J-474X | MG RESISTOR | 470kΩ 1/16W J |         |
| R2656        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R3214        | NRSA63J-334X | MG RESISTOR | 330kΩ 1/16W J |         |
| R2657        | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       | R3218        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R2658        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3219        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R2659        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3220        | QRE141J-104Y | C RESISTOR  | 100kΩ 1/4W J  |         |
| R2660        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3223        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R2661        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | R3224        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R3001        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3229        | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J   |         |
| R3004        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3230        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R3008        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3231        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |         |
| R3011        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3233        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R3012        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3234        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| R3013        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3235        | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |         |
| R3014        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3236        | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |         |
| R3015        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3239        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| R3016        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3240        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| R3017        | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       | R3242        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |         |
| R3018        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3245        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    | B,C,D,E |
| R3019        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3251        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| R3020        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3256        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| R3021        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R3257        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |
| R3022        | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J |       | R3258        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |         |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.     | Part Name   | Description   | Local | △ Symbol No. | Part No.      | Part Name   | Description    | Local   |
|--------------|--------------|-------------|---------------|-------|--------------|---------------|-------------|----------------|---------|
| R3311        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    | A     | R4003        | NRSA63J-561X  | MG RESISTOR | 560Ω 1/16W J   | A       |
| R3312        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R4004        | NRSA63J-561X  | MG RESISTOR | 560Ω 1/16W J   |         |
| R3313        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R4005        | NRSA63J-562X  | MG RESISTOR | 5.6kΩ 1/16W J  |         |
| R3314        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R4007        | NRSA63J-102X  | MG RESISTOR | 1kΩ 1/16W J    |         |
| R3315        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R4008        | NRSA63J-102X  | MG RESISTOR | 1kΩ 1/16W J    |         |
| R3317        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R4009        | NRSA63J-102X  | MG RESISTOR | 1kΩ 1/16W J    |         |
| R3318        | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       | R4010        | NRSA63J-222X  | MG RESISTOR | 2.2kΩ 1/16W J  |         |
| R3322        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R4012        | NRSA63J-222X  | MG RESISTOR | 2.2kΩ 1/16W J  |         |
| R3325        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R4013        | NRSA63J-102X  | MG RESISTOR | 1kΩ 1/16W J    |         |
| R3326        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R4015        | NRSA63J-562X  | MG RESISTOR | 5.6kΩ 1/16W J  |         |
| R3327        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R4017        | NRSA63J-102X  | MG RESISTOR | 1kΩ 1/16W J    |         |
| R3330        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R7101        | NRSA63J-103X  | MG RESISTOR | 10kΩ 1/16W J   |         |
| R3334        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R7102        | NRSA63J-822X  | MG RESISTOR | 8.2kΩ 1/16W J  |         |
| R3335        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R7201        | NRSA63J-101X  | MG RESISTOR | 100Ω 1/16W J   |         |
| R3336        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | R7202        | NRSA63J-221X  | MG RESISTOR | 220Ω 1/16W J   |         |
| R3337        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R7203        | NRSA63J-472X  | MG RESISTOR | 4.7kΩ 1/16W J  |         |
| R3338        | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |       | R7204        | QRE121J-100Y  | C RESISTOR  | 10Ω 1/2W J     |         |
| R3340        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R7501        | NRSA63J-4R7X  | MG RESISTOR | 4.7Ω 1/16W J   |         |
| R3346        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R7502        | NRSA63J-4R7X  | MG RESISTOR | 4.7Ω 1/16W J   |         |
| R3347        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R7503        | NRSA63J-4R7X  | MG RESISTOR | 4.7Ω 1/16W J   |         |
| R3348        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | R7504        | NRSA63J-820X  | MG RESISTOR | 82Ω 1/16W J    |         |
| R3349        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R7505        | NRSA63J-100X  | MG RESISTOR | 10Ω 1/16W J    |         |
| R3350        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | R7506        | NRSA63J-100X  | MG RESISTOR | 10Ω 1/16W J    |         |
| R3351        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       | R7507        | NRSA63J-104X  | MG RESISTOR | 100kΩ 1/16W J  |         |
| R3352        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       | L2           | QQL071J-221Y  | COIL        | 220uH J        | A       |
| R3353        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       | L3           | QQL29BJ-100Z  | P COIL      | 10uH J         |         |
| R3354        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | L5           | QQL29BJ-100Z  | P COIL      | 10uH J         |         |
| R3355        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | L6           | QQL29BJ-100Z  | P COIL      | 10uH J         |         |
| R3356        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | L7           | QQR0967-001   | CHOCO COIL  |                |         |
| R3357        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | L10          | QQL29BJ-100Z  | P COIL      | 10uH J         |         |
| R3359        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | L14          | QQL071J-101Y  | COIL        | 100uH J        |         |
| R3362        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | L201         | QQL29BK-1R0Z  | P COIL      | 1uH K          |         |
| R3363        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | L203         | QQL37CJ-220Z  | COIL        | 22uH J         |         |
| R3366        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | L204         | QQL29BJ-100Z  | P COIL      | 10uH J         |         |
| R3369        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       | L206         | QQL071J-220Y  | COIL        | 22uH J         |         |
| R3371        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | L2251        | QQL29BJ-100Z  | P COIL      | 10uH J         |         |
| R3372        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | L2252        | QQL29BJ-151Z  | P COIL      | 150uH J        |         |
| R3373        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | L3001        | QQL231J-R22Y  | COIL        | 0.22uH J       |         |
| R3374        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | L7101        | QQL29BJ-100Z  | P COIL      | 10uH J         |         |
| R3375        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       | L7201        | QQL29BJ-100Z  | P COIL      | 10uH J         |         |
| R3376        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       | L7501        | QQL29BK-1R0Z  | P COIL      | 1uH K          |         |
| R3377        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       | L7502        | QQL29BK-1R0Z  | P COIL      | 1uH K          |         |
| R3379        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | T2051        | QQR0002-001   | BIAS COIL   |                |         |
| R3380        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B1           | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     | B,C,D,E |
| R3381        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B2           | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3385        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B4           | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3386        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B7           | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3388        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B8           | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3390        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B9           | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3403        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B12          | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3405        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B203         | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3407        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | B3461        | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3505        | QRE141J-181Y | C RESISTOR  | 180Ω 1/4W J   | A     | B3462        | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3506        | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |       | B3466        | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3507        | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |       | B3502        | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3508        | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J  |       | B3504        | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3509        | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |       | B3961        | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3510        | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J  |       | B3962        | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3511        | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |       | B3966        | NRSA63J-0R0X  | MG RESISTOR | 0Ω 1/16W J     |         |
| R3513        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       | CN1          | QGF1201C2-09  | CONNECTOR   | FFC/FPC (1-9)  |         |
| R3514        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | CN2001       | QGF1207C1-06  | CONNECTOR   | FFC/FPC (1-6)  |         |
| R3515        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | CN2002       | QGB2532J1-02  | CONNECTOR   | B-B (1-2)      |         |
| R3516        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | CN2601       | QGB1231L1-11  | CONNECTOR   | B-B (1-11)     |         |
| R3517        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | CN3001       | QGB2032M4-12  | CONNECTOR   | B-B (1-12)     |         |
| R3518        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | CN3102       | QGF1207C1-11  | CONNECTOR   | FFC/FPC (1-11) |         |
| R3519        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | CN3103       | QGB1231L1-15  | CONNECTOR   | B-B (1-15)     |         |
| R3520        | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       | CN3401       | QGF1207C1-06  | CONNECTOR   | FFC/FPC (1-6)  |         |
| R3522        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       | CN3901       | QGF1207C1-06  | CONNECTOR   | FFC/FPC (1-6)  |         |
| R3523        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | CN5311       | QGF1207C1-15  | CONNECTOR   | FFC/FPC (1-15) |         |
| R3524        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | CN7111       | QGF1207C1-09  | CONNECTOR   | FFC/FPC (1-9)  |         |
| R3529        | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J   |       | CN7112       | QGF1207C1-09  | CONNECTOR   | FFC/FPC (1-9)  |         |
| R3530        | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       | CN7113       | QGB2024K1-14S | CONNECTOR   | B-B (1-14)     |         |
| R3531        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       | CN7114       | QGB2024K1-14S | CONNECTOR   | B-B (1-14)     |         |
| R3535        | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |       | CN7115       | QGB2024K1-17S | CONNECTOR   | B-B (1-17)     |         |
| R3536        | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |       | CN7116       | QGF1207C1-14  | CONNECTOR   | FFC/FPC (1-14) |         |
| R3541        | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J |       | CN7117       | QGF1207C1-13  | CONNECTOR   | FFC/FPC (1-13) |         |
| R3553        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |              |               |             |                |         |
| R3564        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |              |               |             |                |         |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.        | Part Name             | Description    | Local |
|--------------|-----------------|-----------------------|----------------|-------|
| CN7118       | QGF1207C1-07    | CONNECTOR             | FFC/FPC (1-7)  | A     |
| CN7119       | QGF1207C1-15    | CONNECTOR             | FFC/FPC (1-15) |       |
| △ CP3002     | QMFZ050-1R25X-E | FUSE                  | 1.25A 125V     |       |
| △ CP4002     | QMFZ050-1R25X-E | FUSE                  | 1.25A 125V     |       |
| J7009        | QNN0096-001     | PIN JACK              | COAXIAL OUT    |       |
| J7010        | GP1FA313TZ      | OPT TRANSMITTER       | OPTICAL OUT    |       |
| J7201        | QNS0100-001     | 3.5 JACK              | SAT CONTROL    |       |
| JS3001       | NSW0238-001     | ROTARY ENCODER        |                |       |
| K2001        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K2002        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K2003        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K2004        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K2251        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K2252        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3001        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3002        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3003        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3004        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3005        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3006        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3007        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3008        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3009        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3010        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K3011        | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| K7501        | NQR0147-004X    | FERRITE BEADS         |                |       |
| K7502        | NQR0147-004X    | FERRITE BEADS         |                |       |
| K7503        | NQR0147-004X    | FERRITE BEADS         |                |       |
| OT1          | LP31378-001A    | BOSS(MECHA)3          |                |       |
| OT2          | LP31379-001A    | BOSS(MECHA)4          | (x2)           |       |
| S3001        | QSW0602-004     | PUSH SWITCH           | REC. SAFETY    |       |
| SD1          | LP31179-001A    | SHIELD PLATE(PRE/REC) |                |       |
| W1           | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W2           | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W3           | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W4           | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W5           | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W6           | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W7           | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W8           | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W10          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W11          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W12          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W13          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W14          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W15          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W16          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W17          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W18          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W19          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W20          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W21          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W22          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W23          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W24          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W25          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W26          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W27          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W29          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W30          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W31          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W32          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W33          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W34          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W35          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W36          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W37          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W40          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W41          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W42          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W43          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W45          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| W46          | NRSA63J-0R0X    | MG RESISTOR           | 0Ω 1/16W J     |       |
| WR2          | QUB321-06AZAZA  | SIN TWIST WIRE        |                |       |
| WR3          | QUB321-04AZAZA  | SIN TWIST WIRE        |                |       |
| WR4          | QUB321-06AZAZA  | SIN TWIST WIRE        |                |       |
| X1           | QAX0740-001     | CRYSTAL               | 4.433619MHz    |       |
| X3001        | QAX0445-001     | CRYSTAL               | 32.768kHz      |       |

| △ Symbol No. | Part No.    | Part Name | Description  | Local |
|--------------|-------------|-----------|--------------|-------|
| X3002        | QAX0527-001 | CRYSTAL   | 10.000000MHz |       |
| X3301        | QAX0444-001 | CRYSTAL   | 32.768kHz    |       |
| X3302        | QAX0527-001 | CRYSTAL   | 10.000000MHz |       |

## Terminal board

Block No. [0][6]

| △ Symbol No. | Part No.           | Part Name           | Description  | Local   |
|--------------|--------------------|---------------------|--------------|---------|
| PW1          | LPA10264-02A3      | TERMINAL BOARD ASSY |              | A       |
| PW1          | LPA10264-01A3      | TERMINAL BOARD ASSY |              | B,C,D,E |
| IC801        | LA7151             | IC                  |              |         |
| IC901        | HA118226F          | IC                  |              |         |
| IC902        | BA7623F-X          | SOP IC              |              |         |
| Q901         | 2SC2412K/QRS/-X    | TRANSISTOR          |              |         |
| Q902         | 2SC2412K/QRS/-X    | TRANSISTOR          |              |         |
| Q903         | DTC144WKA-X        | DIGI TRANSISTOR     |              |         |
| Q904         | DTC144WKA-X        | DIGI TRANSISTOR     |              |         |
| Q907         | 2SA1037AK/QR/-X    | TRANSISTOR          |              |         |
| Q908         | 2SA1037AK/QR/-X    | TRANSISTOR          |              |         |
| Q912         | 2SA1037AK/QR/-X    | TRANSISTOR          |              |         |
| Q913         | 2SA1037AK/QR/-X    | TRANSISTOR          |              |         |
| Q917         | 2SC2412K/QRS/-X    | TRANSISTOR          |              |         |
| Q917         | or 2SD601A/QRS/-X  | TRANSISTOR          |              |         |
| Q917         | or 2SC3928A/QRS/-X | TRANSISTOR          |              |         |
| Q918         | 2SC2412K/QRS/-X    | TRANSISTOR          |              |         |
| Q918         | or 2SD601A/QRS/-X  | TRANSISTOR          |              |         |
| Q918         | or 2SC3928A/QRS/-X | TRANSISTOR          |              |         |
| Q919         | DTA144WKA-X        | TRANSISTOR          |              |         |
| Q919         | or UN211E-X        | DIGI TRANSISTOR     |              |         |
| Q919         | or RT1P44HC-X      | DIGI TRANSISTOR     |              |         |
| Q932         | 2SA1576A/QR/-X     | TRANSISTOR          |              |         |
| Q932         | or 2PA1576/R/-X    | TRANSISTOR          |              |         |
| Q932         | or 2SB1218A/QR/-X  | TRANSISTOR          |              |         |
| Q933         | 2SA1576A/QR/-X     | TRANSISTOR          |              |         |
| Q933         | or 2PA1576/R/-X    | TRANSISTOR          |              |         |
| Q933         | or 2SB1218A/QR/-X  | TRANSISTOR          |              |         |
| Q936         | 2SA1576A/QR/-X     | TRANSISTOR          |              |         |
| Q936         | or 2PA1576/R/-X    | TRANSISTOR          |              |         |
| Q936         | or 2SB1218A/QR/-X  | TRANSISTOR          |              |         |
| Q941         | 2SA1037AK/QR/-X    | TRANSISTOR          |              |         |
| Q942         | DTC114TKA-X        | TRANSISTOR          |              |         |
| Q943         | DTC144WKA-X        | DIGI TRANSISTOR     |              |         |
| Q944         | DTC114EKA-X        | DIGI TRANSISTOR     |              |         |
| D902         | QRE141J-181Y       | C RESISTOR          | 180Ω 1/4W J  |         |
| D904         | MTZJ9.1B-T2        | Z DIODE             |              |         |
| D904         | or RD9.1ES/B2/-T2  | Z DIODE             |              |         |
| D905         | 1SS133-T2          | SI DIODE            |              |         |
| D905         | or 1SS270A-T2      | SI DIODE            |              |         |
| C801         | QEKJ1HM-105Z       | E CAPACITOR         | 1uF 50V M    |         |
| C802         | QEKJ1HM-105Z       | E CAPACITOR         | 1uF 50V M    |         |
| C803         | QEKJ1HM-475Z       | E CAPACITOR         | 4.7uF 50V M  |         |
| C804         | QEKJ1HM-475Z       | E CAPACITOR         | 4.7uF 50V M  |         |
| C805         | QEKJ1HM-105Z       | E CAPACITOR         | 1uF 50V M    |         |
| C806         | QEKJ1HM-105Z       | E CAPACITOR         | 1uF 50V M    |         |
| C807         | QEKJ1EM-106Z       | E CAPACITOR         | 10uF 25V M   |         |
| C901         | QEKJ0JM-227Z       | E CAPACITOR         | 220uF 6.3V M |         |
| C902         | NDC31HJ-331X       | C CAPACITOR         | 330pF 50V J  |         |
| C903         | NDC31HJ-331X       | C CAPACITOR         | 330pF 50V J  |         |
| C904         | NDC31HJ-331X       | C CAPACITOR         | 330pF 50V J  |         |
| C905         | NDC31HJ-331X       | C CAPACITOR         | 330pF 50V J  |         |
| C906         | NCB31HK-471X       | C CAPACITOR         | 470pF 50V K  |         |
| C907         | NCB31HK-471X       | C CAPACITOR         | 470pF 50V K  |         |
| C908         | NCB31HK-471X       | C CAPACITOR         | 470pF 50V K  |         |
| C909         | NCB31HK-471X       | C CAPACITOR         | 470pF 50V K  |         |
| C914         | QEKJ0JM-227Z       | E CAPACITOR         | 220uF 6.3V M |         |
| C915         | QEKJ0JM-337Z       | E CAPACITOR         | 330uF 6.3V M |         |
| C916         | QEKJ0JM-337Z       | E CAPACITOR         | 330uF 6.3V M |         |
| C917         | QEKJ0JM-337Z       | E CAPACITOR         | 330uF 6.3V M |         |
| C918         | NDC31HJ-331X       | C CAPACITOR         | 330pF 50V J  |         |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.     | Part Name   | Description   | Local |
|--------------|--------------|-------------|---------------|-------|
| C919         | NDC31HJ-331X | C CAPACITOR | 330pF 50V J   |       |
| C920         | NDC31HJ-331X | C CAPACITOR | 330pF 50V J   |       |
| C921         | NDC31HJ-331X | C CAPACITOR | 330pF 50V J   |       |
| C922         | NCB31HK-471X | C CAPACITOR | 470pF 50V K   |       |
| C923         | NCB31HK-471X | C CAPACITOR | 470pF 50V K   |       |
| C924         | NCB31HK-471X | C CAPACITOR | 470pF 50V K   |       |
| C925         | NCB31HK-471X | C CAPACITOR | 470pF 50V K   |       |
| C930         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C932         | NCF31EZ-104X | C CAPACITOR | 0.1uF 25V Z   |       |
| C934         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C935         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C937         | QEKJ1EM-106Z | E CAPACITOR | 10uF 25V M    |       |
| C939         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C940         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C941         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C942         | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M   |       |
| C944         | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M    |       |
| C950         | QEKJ1EM-106Z | E CAPACITOR | 10uF 25V M    |       |
| C951         | QEKJ1EM-106Z | E CAPACITOR | 10uF 25V M    |       |
| C952         | QEKJ1EM-106Z | E CAPACITOR | 10uF 25V M    |       |
| C953         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C954         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C955         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C956         | QEKJ0JM-476Z | E CAPACITOR | 47uF 6.3V M   |       |
| C957         | NDC31HJ-101X | C CAPACITOR | 100pF 50V J   |       |
| C960         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C961         | QEKJ0JM-476Z | E CAPACITOR | 47uF 6.3V M   |       |
| C962         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C963         | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M    |       |
| C964         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C965         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C968         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C971         | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M    |       |
| C973         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C981         | QEKJ0JM-227Z | E CAPACITOR | 220uF 6.3V M  |       |
| C982         | QEKJ0JM-337Z | E CAPACITOR | 330uF 6.3V M  |       |
| C983         | QEKJ0JM-337Z | E CAPACITOR | 330uF 6.3V M  |       |
| C986         | NCB31HK-102X | C CAPACITOR | 1000pF 50V K  |       |
| C988         | NCB31HK-102X | C CAPACITOR | 1000pF 50V K  |       |
| C991         | QEKJ0JM-227Z | E CAPACITOR | 220uF 6.3V M  |       |
| C992         | QEKJ0JM-227Z | E CAPACITOR | 220uF 6.3V M  |       |
| C994         | QEKJ0JM-227Z | E CAPACITOR | 220uF 6.3V M  |       |
| C996         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C997         | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  |       |
| C6114        | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K  | C     |
| R901         | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| R902         | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       |
| R903         | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J  |       |
| R904         | NRSA63J-474X | MG RESISTOR | 470kΩ 1/16W J |       |
| R909         | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R910         | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R911         | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R912         | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R913         | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R914         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R915         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R918         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R919         | QRE141J-131Y | C RESISTOR  | 130Ω 1/4W J   |       |
| R920         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R921         | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| R922         | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R923         | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J   |       |
| R924         | NRSA63D-680X | MG RESISTOR | 68Ω 1/16W D   |       |
| R925         | NRSA63D-750X | MG RESISTOR | 75Ω 1/16W D   |       |
| R926         | NRSA63D-750X | MG RESISTOR | 75Ω 1/16W D   |       |
| R927         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R928         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R937         | QRE141J-101Y | C RESISTOR  | 100Ω 1/4W J   |       |
| R939         | QRE141J-101Y | C RESISTOR  | 100Ω 1/4W J   |       |
| R940         | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
| R943         | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| R944         | QRE121J-331Y | C RESISTOR  | 330Ω 1/2W J   |       |
| R945         | QRE121J-331Y | C RESISTOR  | 330Ω 1/2W J   |       |
| R949         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R950         | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J  |       |
| R951         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |
| R952         | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |       |

| △ Symbol No. | Part No.      | Part Name      | Description         | Local |
|--------------|---------------|----------------|---------------------|-------|
| R953         | QRE141J-102Y  | C RESISTOR     | 1kΩ 1/4W J          |       |
| R954         | NRSA63J-273X  | MG RESISTOR    | 27kΩ 1/16W J        |       |
| R960         | QRE141J-471Y  | C RESISTOR     | 470Ω 1/4W J         |       |
| R961         | QRE141J-471Y  | C RESISTOR     | 470Ω 1/4W J         |       |
| R965         | QRE121J-331Y  | C RESISTOR     | 330Ω 1/2W J         |       |
| R966         | NRSA63J-562X  | MG RESISTOR    | 5.6kΩ 1/16W J       |       |
| R967         | NRSA63J-562X  | MG RESISTOR    | 5.6kΩ 1/16W J       |       |
| R968         | NRSA63J-332X  | MG RESISTOR    | 3.3kΩ 1/16W J       |       |
| R969         | QRE141J-101Y  | C RESISTOR     | 100Ω 1/4W J         |       |
| R976         | QRE141J-102Y  | C RESISTOR     | 1kΩ 1/4W J          |       |
| R977         | QRE141J-473Y  | C RESISTOR     | 47kΩ 1/4W J         |       |
| R978         | NRSA63J-393X  | MG RESISTOR    | 39kΩ 1/16W J        |       |
| R985         | NRSA63D-750X  | MG RESISTOR    | 75Ω 1/16W D         |       |
| R986         | NRSA63D-750X  | MG RESISTOR    | 75Ω 1/16W D         |       |
| R987         | NRSA63D-750X  | MG RESISTOR    | 75Ω 1/16W D         |       |
| R988         | NRSA63J-101X  | MG RESISTOR    | 100Ω 1/16W J        |       |
| R989         | NRSA63J-101X  | MG RESISTOR    | 100Ω 1/16W J        |       |
| R990         | NRSA63J-273X  | MG RESISTOR    | 27kΩ 1/16W J        |       |
| R991         | NRSA63J-473X  | MG RESISTOR    | 47kΩ 1/16W J        |       |
| R992         | NRSA63J-102X  | MG RESISTOR    | 1kΩ 1/16W J         |       |
| R993         | NRSA63J-393X  | MG RESISTOR    | 39kΩ 1/16W J        |       |
| R994         | NRSA63J-103X  | MG RESISTOR    | 10kΩ 1/16W J        |       |
| R6132        | NRSA63J-0R0X  | MG RESISTOR    | 0Ω 1/16W J          | C     |
| L901         | QQL071J-100Y  | COIL           | 10uH J              |       |
| L902         | QQL071J-100Y  | COIL           | 10uH J              |       |
| L903         | QQL071J-1R0Y  | COIL           | 1uH J               |       |
| L904         | QQL071J-4R7Y  | COIL           | 4.7uH J             |       |
| L905         | QQL071J-4R7Y  | COIL           | 4.7uH J             |       |
| L906         | QQL071J-100Y  | COIL           | 10uH J              |       |
| L907         | QQL071J-100Y  | COIL           | 10uH J              |       |
| L908         | QQL231J-R22Y  | COIL           | 0.22uH J            |       |
| L909         | QQL071J-4R7Y  | COIL           | 4.7uH J             |       |
| L910         | QQL071J-4R7Y  | COIL           | 4.7uH J             |       |
| L914         | QQL071J-1R0Y  | COIL           | 1uH J               |       |
| L917         | QQL29BJ-100Z  | P COIL         | 10uH J              |       |
| L918         | QQL29BJ-100Z  | P COIL         | 10uH J              |       |
| L919         | QQL29BJ-100Z  | P COIL         | 10uH J              |       |
| L931         | QQL071J-100Y  | COIL           | 10uH J              |       |
| L932         | QQL071J-100Y  | COIL           | 10uH J              |       |
| L933         | QQL071J-100Y  | COIL           | 10uH J              |       |
| L934         | QQL071J-100Y  | COIL           | 10uH J              |       |
| CN913        | QGB2024J1-14S | CONNECTOR      | B-B (1-14)          |       |
| CN914        | QGB2024J1-14S | CONNECTOR      | B-B (1-14)          |       |
| CN915        | QGB2024J1-17S | CONNECTOR      | B-B (1-17)          |       |
| ET1          | QNZ0431-001Z  | EARTH TERMINAL |                     |       |
| J901         | QNZ0627-001   | 21P CONNECTOR  | L-1 IN/OUT          |       |
| J902         | QNZ0627-001   | 21P CONNECTOR  | L-2 IN/DECODER      |       |
| J905         | QNN0599-002   | PIN JACK       | COMPONENT VIDEO OUT |       |
| J907         | QNN0295-002   | PIN JACK       | AUDIO OUT           |       |
| OT3          | LP40229-002A  | PLATE          |                     | A     |
| W101         | NRSA63J-0R0X  | MG RESISTOR    | 0Ω 1/16W J          |       |
| W102         | NRSA63J-0R0X  | MG RESISTOR    | 0Ω 1/16W J          |       |
| W103         | NRSA63J-0R0X  | MG RESISTOR    | 0Ω 1/16W J          |       |
| W104         | NRSA63J-0R0X  | MG RESISTOR    | 0Ω 1/16W J          |       |
| W105         | NRSA63J-0R0X  | MG RESISTOR    | 0Ω 1/16W J          |       |
| W106         | NRSA63J-0R0X  | MG RESISTOR    | 0Ω 1/16W J          |       |
| W107         | NRSA63J-0R0X  | MG RESISTOR    | 0Ω 1/16W J          |       |

Tuner board

Block No. [0][7]

| △ Symbol No. | Part No.          | Part Name        | Description | Local   |
|--------------|-------------------|------------------|-------------|---------|
| PW1          | LPA10264-02A1     | TUNER BOARD ASSY |             | A       |
| PW1          | LPA10264-01A1     | TUNER BOARD ASSY |             | B,C,D,E |
| Q6001        | 2SD2144S/UV/-T    | TRANSISTOR       |             |         |
| Q6030        | 2SA1037AK/QR/-X   | TRANSISTOR       |             |         |
| Q6030        | or 2SA1530A/QR/-X | TRANSISTOR       |             |         |
| Q6031        | DTC114EKA-X       | DIGI TRANSISTOR  |             |         |
| Q6031        | or RT1N141C-X     | DIGI TRANSISTOR  |             |         |
| Q6130        | 2SA1037AK/QR/-X   | TRANSISTOR       |             |         |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.         | Part Name       | Description    | Local   |
|--------------|------------------|-----------------|----------------|---------|
| Q6130        | or 2SA1530A/QR-X | TRANSISTOR      |                |         |
| Q6131        | DTC114EKA-X      | DIGI TRANSISTOR |                |         |
| Q6131        | or RT1N141C-X    | DIGI TRANSISTOR |                |         |
| D6002        | HZ30-2L-T2       | Z DIODE         |                |         |
| C6001        | QEKJ0JM-107Z     | E CAPACITOR     | 100uF 6.3V M   |         |
| C6002        | NCB31HK-103X     | C CAPACITOR     | 0.01uF 50V K   |         |
| C6037        | QEKJ1CM-106Z     | E CAPACITOR     | 10uF 16V M     | A       |
| C6114        | NCB31HK-103X     | C CAPACITOR     | 0.01uF 50V K   | B,D,E   |
| C6137        | QEKJ1CM-106Z     | E CAPACITOR     | 10uF 16V M     |         |
| C6501        | QEKJ0JM-337Z     | E CAPACITOR     | 330uF 6.3V M   |         |
| C6502        | NCB31HK-103X     | C CAPACITOR     | 0.01uF 50V K   |         |
| C6503        | NCB31HK-103X     | C CAPACITOR     | 0.01uF 50V K   |         |
| C6603        | NCB31HK-103X     | C CAPACITOR     | 0.01uF 50V K   |         |
| R6001        | NRSA63J-470X     | MG RESISTOR     | 47Ω 1/16W J    |         |
| R6002        | NRSA63J-101X     | MG RESISTOR     | 100Ω 1/16W J   |         |
| R6020        | NRSA63J-102X     | MG RESISTOR     | 1kΩ 1/16W J    |         |
| R6021        | NRSA63J-102X     | MG RESISTOR     | 1kΩ 1/16W J    |         |
| R6030        | QRE141J-102Y     | C RESISTOR      | 1kΩ 1/4W J     |         |
| R6031        | NRSA63J-101X     | MG RESISTOR     | 100Ω 1/16W J   |         |
| R6032        | NRSA63J-183X     | MG RESISTOR     | 18kΩ 1/16W J   | A       |
| R6033        | NRSA63J-183X     | MG RESISTOR     | 18kΩ 1/16W J   | A       |
| R6080        | NRSA63J-103X     | MG RESISTOR     | 10kΩ 1/16W J   |         |
| R6120        | NRSA63J-102X     | MG RESISTOR     | 1kΩ 1/16W J    |         |
| R6121        | NRSA63J-102X     | MG RESISTOR     | 1kΩ 1/16W J    |         |
| R6130        | QRE141J-332Y     | C RESISTOR      | 3.3kΩ 1/4W J   |         |
| R6131        | NRSA63J-101X     | MG RESISTOR     | 100Ω 1/16W J   |         |
| R6132        | NRSA63J-182X     | MG RESISTOR     | 1.8kΩ 1/16W J  | A       |
| R6132        | NRSA63J-0R0X     | MG RESISTOR     | 0Ω 1/16W J     | B,D,E   |
| R6133        | NRSA63J-182X     | MG RESISTOR     | 1.8kΩ 1/16W J  | A       |
| L6001        | QQL29BK-1R0Z     | P COIL          | 1uH K          |         |
| L6002        | QQL29BK-1R0Z     | P COIL          | 1uH K          |         |
| L6005        | QQL29BK-1R0Z     | P COIL          | 1uH K          |         |
| L6101        | QQL29BK-1R0Z     | P COIL          | 1uH K          |         |
| L6102        | QQL29BK-1R0Z     | P COIL          | 1uH K          |         |
| L6501        | QQL29BJ-3R3Z     | P COIL          | 3.3uH J        |         |
| L6601        | QQL29BJ-3R3Z     | P COIL          | 3.3uH J        |         |
| BK1          | LP21286-001A     | BRACKET(TUNER)  |                |         |
| CD1          | QAM0641-001      | RF CABLE        |                |         |
| CD2          | QAM0641-001      | RF CABLE        |                |         |
| CD3          | QAM0641-001      | RF CABLE        |                |         |
| CN6001       | QGF1207F1-14     | CONNECTOR       | FFC/FPC (1-14) |         |
| CN6002       | QGF1207F1-13     | CONNECTOR       | FFC/FPC (1-13) |         |
| CN6003       | QGF1207F1-07     | CONNECTOR       | FFC/FPC (1-7)  |         |
| OT1          | LP31391-001A     | SPECIAL SCREW   | TUNER(x6)      |         |
| OT2          | LP40229-002A     | PLATE           |                |         |
| OT3          | LP40229-002A     | PLATE           |                | B,C,D,E |
| TU6001       | QAU0299-001      | TUNER           |                | A       |
| TU6001       | QAU0323-001      | TUNER           |                | B,C,D,E |
| TU6002       | QAU0299-001      | TUNER           |                | A       |
| TU6002       | QAU0323-001      | TUNER           |                | B,C,D,E |
| TU6003       | QNZ0681-001      | RF CONNECTOR    |                |         |

## A/C head board

Block No. [1][2]

| △ Symbol No. | Part No.      | Part Name           | Description | Local |
|--------------|---------------|---------------------|-------------|-------|
| PW1          | LPA10158-01A1 | A/C HEAD BOARD ASSY |             |       |

## Demod board

Block No. [1][4]

| △ Symbol No. | Part No.           | Part Name        | Description   | Local   |
|--------------|--------------------|------------------|---------------|---------|
| PW1          | LPA10094-16A       | DEMOD BOARD ASSY |               | A       |
| PW1          | LPA10094-15A       | DEMOD BOARD ASSY |               | B,C,D,E |
| IC6701       | MSP3417G-X         | IC               |               | A       |
| IC6701       | or MSP3417GQGB8V3X | IC               |               | A       |
| IC6701       | MSP3417GQGB8V3X    | IC               |               | B,C,D,E |
| IC6701       | or MSP3417G-X      | IC               |               | B,C,D,E |
| Q6701        | 2SC3936/BC/-X      | TRANSISTOR       |               |         |
| D6701        | 1SS133-T2          | SI DIODE         |               |         |
| D6701        | or 1SS270A-T2      | SI DIODE         |               |         |
| C6701        | NCB21HK-103X       | C CAPACITOR      | 0.01uF 50V K  |         |
| C6704        | NCB21HK-103X       | C CAPACITOR      | 0.01uF 50V K  |         |
| C6707        | NDC21HJ-470X       | C CAPACITOR      | 47pF 50V J    |         |
| C6708        | NDC21HJ-8R0X       | C CAPACITOR      | 8pF 50V J     |         |
| C6709        | NDC21HJ-150X       | C CAPACITOR      | 15pF 50V J    |         |
| C6713        | NCF21CZ-224X       | C CAPACITOR      | 0.22uF 16V Z  |         |
| C6714        | NCB21HK-222X       | C CAPACITOR      | 2200pF 50V K  |         |
| C6715        | QEKJ1HM-225Z       | E CAPACITOR      | 2.2uF 50V M   |         |
| C6716        | NCB21HK-222X       | C CAPACITOR      | 2200pF 50V K  |         |
| C6717        | QEKJ1HM-225Z       | E CAPACITOR      | 2.2uF 50V M   |         |
| C6719        | QEKJ1EM-106Z       | E CAPACITOR      | 10uF 25V M    |         |
| C6720        | QEKJ1EM-106Z       | E CAPACITOR      | 10uF 25V M    |         |
| C6721        | NCB21HK-103X       | C CAPACITOR      | 0.01uF 50V K  |         |
| C6723        | NCB21HK-103X       | C CAPACITOR      | 0.01uF 50V K  |         |
| C6724        | QEKJ1HM-225Z       | E CAPACITOR      | 2.2uF 50V M   | A       |
| R6701        | NRSA02J-392X       | MG RESISTOR      | 3.9kΩ 1/10W J |         |
| R6702        | NRSA02J-682X       | MG RESISTOR      | 6.8kΩ 1/10W J |         |
| R6703        | NRSA02J-0R0X       | MG RESISTOR      | 0Ω 1/10W J    |         |
| R6704        | NRSA02J-102X       | MG RESISTOR      | 1kΩ 1/10W J   |         |
| R6705        | NRSA02J-271X       | MG RESISTOR      | 270Ω 1/10W J  |         |
| R6707        | NRSA02J-330X       | MG RESISTOR      | 33Ω 1/10W J   |         |
| R6708        | NQR0200-003X       | FERRITE BEADS    |               | A       |
| R6708        | NRSA02J-103X       | MG RESISTOR      | 10kΩ 1/10W J  | B,C,D,E |
| R6709        | NQR0200-003X       | FERRITE BEADS    |               | A       |
| R6709        | NRSA02J-102X       | MG RESISTOR      | 1kΩ 1/10W J   | B,C,D,E |
| R6710        | NRSA02J-120X       | MG RESISTOR      | 12Ω 1/10W J   | A       |
| R6710        | NRSA02J-0R0X       | MG RESISTOR      | 0Ω 1/10W J    | B,C,D,E |
| R6711        | NRSA02J-104X       | MG RESISTOR      | 100kΩ 1/10W J |         |
| R6712        | NRSA02J-102X       | MG RESISTOR      | 1kΩ 1/10W J   |         |
| R6713        | NRSA02J-123X       | MG RESISTOR      | 12kΩ 1/10W J  |         |
| R6714        | NRSA02J-102X       | MG RESISTOR      | 1kΩ 1/10W J   |         |
| R6715        | NRSA02J-123X       | MG RESISTOR      | 12kΩ 1/10W J  |         |
| R6716        | NRSA02J-470X       | MG RESISTOR      | 47Ω 1/10W J   |         |
| R6719        | QRE141J-103Y       | C RESISTOR       | 10kΩ 1/4W J   |         |
| R6720        | NRSA02J-562X       | MG RESISTOR      | 5.6kΩ 1/10W J |         |
| R6721        | NRSA02J-562X       | MG RESISTOR      | 5.6kΩ 1/10W J |         |
| BK1          | LP40425-001A       | BRACKET(PWB)     |               |         |
| CN6701       | QGG2502K1-10       | CONNECTOR        | (1-10)        |         |
| K6701        | NQR0200-003X       | FERRITE BEADS    |               |         |
| K6702        | NQR0200-003X       | FERRITE BEADS    |               |         |
| K6703        | NRSA02J-102X       | MG RESISTOR      | 1kΩ 1/10W J   | A       |
| K6703        | NQR0200-003X       | FERRITE BEADS    |               | B,C,D,E |
| K6704        | NRSA02J-102X       | MG RESISTOR      | 1kΩ 1/10W J   | A       |
| K6704        | NQR0200-003X       | FERRITE BEADS    |               | B,C,D,E |
| K6705        | NQR0200-003X       | FERRITE BEADS    |               |         |
| K6706        | NQR0200-003X       | FERRITE BEADS    |               |         |
| K6707        | NQR0200-003X       | FERRITE BEADS    |               | A       |
| W6701        | NRSA02J-0R0X       | MG RESISTOR      | 0Ω 1/10W J    |         |
| X6701        | QAX0773-001Z       | CRYSTAL          | 18.432000MHz  |         |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

## Operation/jack board

Block No. [2][7]

| △ Symbol No. | Part No.        | Part Name                 | Description      | Local |
|--------------|-----------------|---------------------------|------------------|-------|
| PW1          | LPA10249-03B5   | OPERATION/JACK BOARD ASSY |                  |       |
| C7201        | NDC31HJ-102X    | C CAPACITOR               | 1000pF 50V J     |       |
| C7202        | NDC31HJ-102X    | C CAPACITOR               | 1000pF 50V J     |       |
| C7204        | NDC31HJ-102X    | C CAPACITOR               | 1000pF 50V J     |       |
| C7206        | NCB31HK-103X    | C CAPACITOR               | 0.01uF 50V K     |       |
| R7202        | QRE141J-750Y    | C RESISTOR                | 75Ω 1/4W J       |       |
| R7206        | NRSA63J-750X    | MG RESISTOR               | 75Ω 1/16W J      |       |
| R7207        | NRSA63J-750X    | MG RESISTOR               | 75Ω 1/16W J      |       |
| L7202        | QRE141J-101Y    | C RESISTOR                | 100Ω 1/4W J      |       |
| L7203        | QRE141J-101Y    | C RESISTOR                | 100Ω 1/4W J      |       |
| CN7201       | QGF1208C1-09    | CONNECTOR                 | FFC/FPC (1-9)    |       |
| CN7202       | QGD2503C1-03    | CONNECTOR                 | (1-3)            |       |
| J1           | QUB221-07A2A4-E | SIN TWIST WIRE            |                  |       |
| J7201        | QNN0591-001     | PIN JACK                  | FRONT AV IN      |       |
| J7204        | QND0084-001     | S JACK                    | FRONT S-VIDEO IN |       |
| S7216        | QSW0381-001Z    | TACT SWITCH               | VHS EJECT        |       |
| S7218        | QSW0381-001Z    | TACT SWITCH               | STANDBY/ON       |       |

## Switch/display board

Block No. [2][8]

| △ Symbol No. | Part No.          | Part Name                 | Description | Local |
|--------------|-------------------|---------------------------|-------------|-------|
| PW1          | LPA10249-03B4     | SWITCH/DISPLAY BOARD ASSY |             |       |
| IC7001       | PT6315            | IC                        |             |       |
| IC7002       | GP1UM281XKVF      | IR DETECT UNIT            |             |       |
| IC7002       | or PNA4652M00XB   | IR DETECT UNIT            |             |       |
| Q7001        | UN221L-X          | DIGI TRANSISTOR           |             |       |
| Q7001        | or DTC143EKA-X    | DIGI TRANSISTOR           |             |       |
| Q7001        | or RT1N431C-X     | TRANSISTOR                |             |       |
| Q7002        | UN221L-X          | DIGI TRANSISTOR           |             |       |
| Q7002        | or DTC143EKA-X    | DIGI TRANSISTOR           |             |       |
| Q7002        | or RT1N431C-X     | TRANSISTOR                |             |       |
| Q7003        | UN221L-X          | DIGI TRANSISTOR           |             |       |
| Q7003        | or DTC143EKA-X    | DIGI TRANSISTOR           |             |       |
| Q7003        | or RT1N431C-X     | TRANSISTOR                |             |       |
| D7001        | 1SS133-T2         | SI DIODE                  |             |       |
| D7001        | or 1SS270A-T2     | SI DIODE                  |             |       |
| D7002        | 1SS133-T2         | SI DIODE                  |             |       |
| D7002        | or 1SS270A-T2     | SI DIODE                  |             |       |
| D7003        | 1SS133-T2         | SI DIODE                  |             |       |
| D7003        | or 1SS270A-T2     | SI DIODE                  |             |       |
| D7004        | 1SS133-T2         | SI DIODE                  |             |       |
| D7004        | or 1SS270A-T2     | SI DIODE                  |             |       |
| D7005        | 1SS133-T2         | SI DIODE                  |             |       |
| D7005        | or 1SS270A-T2     | SI DIODE                  |             |       |
| D7012        | 1SS133-T2         | SI DIODE                  |             |       |
| D7012        | or 1SS270A-T2     | SI DIODE                  |             |       |
| D7013        | 1SS133-T2         | SI DIODE                  |             |       |
| D7013        | or 1SS270A-T2     | SI DIODE                  |             |       |
| D7014        | 1SS133-T2         | SI DIODE                  |             |       |
| D7014        | or 1SS270A-T2     | SI DIODE                  |             |       |
| D7021        | RD9.1ES/B2/-T2    | Z DIODE                   |             |       |
| D7021        | or MTZJ9.1B-T2    | Z DIODE                   |             |       |
| D7041        | SLR343WBCT3       | LED                       | VHS         |       |
| D7042        | SLR-343VC-T       | LED                       | VHS REC     |       |
| D7043        | SLR-343VC-T       | LED                       | HDD REC     |       |
| D7044        | SLR-343VC-T       | LED                       | DVD REC     |       |
| D7045        | SDPB50A0/DEGH/LED | LED                       | ILLUM       |       |
| D7045        | or SLA-580BCT3F   | LED                       |             |       |
| D7045        | or SLA-580BC3T3F  | LED                       |             |       |
| D7046        | SLR343WBCT3       | LED                       | HDD         |       |
| D7047        | SLR343WBCT3       | LED                       | DVD         |       |

| △ Symbol No. | Part No.          | Part Name       | Description    | Local |
|--------------|-------------------|-----------------|----------------|-------|
| D7048        | SDPB50A0/DEGH/LED |                 | ILLUM          |       |
| D7048        | or SLA-580BCT3F   | LED             |                |       |
| D7048        | or SLA-580BC3T3F  | LED             |                |       |
| C7001        | NCB31EK-104X      | C CAPACITOR     | 0.1uF 25V K    |       |
| C7002        | QCFB1HZ-104Y      | C CAPACITOR     | 0.1uF 50V Z    |       |
| C7003        | QEKJ1HM-106Z      | E CAPACITOR     | 10uF 50V M     |       |
| C7006        | QEKCOJM-227Z      | E CAPACITOR     | 220uF 6.3V M   |       |
| C7008        | QERF1AM-227Z      | E CAPACITOR     | 220uF 10V M    |       |
| C7010        | NCF31HZ-473X      | C CAPACITOR     | 0.047uF 50V Z  |       |
| C7011        | NCF31HZ-473X      | C CAPACITOR     | 0.047uF 50V Z  |       |
| R7001        | QRE141J-103Y      | C RESISTOR      | 10kΩ 1/4W J    |       |
| R7002        | QRE141J-103Y      | C RESISTOR      | 10kΩ 1/4W J    |       |
| R7003        | QRE141J-823Y      | C RESISTOR      | 82kΩ 1/4W J    |       |
| R7005        | QRE141J-472Y      | C RESISTOR      | 4.7kΩ 1/4W J   |       |
| R7006        | QRE141J-472Y      | C RESISTOR      | 4.7kΩ 1/4W J   |       |
| R7007        | QRE141J-102Y      | C RESISTOR      | 1kΩ 1/4W J     |       |
| R7009        | QRE141J-103Y      | C RESISTOR      | 10kΩ 1/4W J    |       |
| R7010        | NRSA63J-103X      | MG RESISTOR     | 10kΩ 1/16W J   |       |
| R7013        | QRE141J-333Y      | C RESISTOR      | 33kΩ 1/4W J    |       |
| R7014        | QRE141J-333Y      | C RESISTOR      | 33kΩ 1/4W J    |       |
| R7015        | NRSA63J-102X      | MG RESISTOR     | 1kΩ 1/16W J    |       |
| R7022        | QRE141J-102Y      | C RESISTOR      | 1kΩ 1/4W J     |       |
| R7041        | QRE141J-331Y      | C RESISTOR      | 330Ω 1/4W J    |       |
| R7042        | QRE141J-181Y      | C RESISTOR      | 180Ω 1/4W J    |       |
| R7043        | QRE141J-181Y      | C RESISTOR      | 180Ω 1/4W J    |       |
| R7044        | NRSA63J-181X      | MG RESISTOR     | 180Ω 1/16W J   |       |
| R7045        | NRSA63J-101X      | MG RESISTOR     | 100Ω 1/16W J   |       |
| R7046        | QRE141J-331Y      | C RESISTOR      | 330Ω 1/4W J    |       |
| R7047        | NRSA63J-331X      | MG RESISTOR     | 330Ω 1/16W J   |       |
| R7048        | QRE141J-101Y      | C RESISTOR      | 100Ω 1/4W J    |       |
| R7049        | NRSA63J-222X      | MG RESISTOR     | 2.2kΩ 1/16W J  |       |
| CN7001       | QGF1209F2-11      | CONNECTOR       | FFC/FPC (1-11) |       |
| CN7002       | QGF1207C1-04      | CONNECTOR       | FFC/FPC (1-4)  |       |
| DI7001       | QLF0143-001       | FL TUBE         |                |       |
| FW7001       | QUM023-07A4BF     | PARA RIBON WIRE |                |       |
| HD1          | PQ34949-1-1       | FL HOLDER(L)    |                |       |
| HD2          | PQ34950-1-1       | FDP HOLDER(R)   |                |       |
| S7002        | QSW0381-001Z      | TACT SWITCH     | PR+            |       |
| S7004        | QSW0381-001Z      | TACT SWITCH     | DISPLAY        |       |
| S7012        | QSW0381-001Z      | TACT SWITCH     | VHS/HDD/DVD    |       |
| S7013        | QSW0381-001Z      | TACT SWITCH     | FF             |       |
| S7014        | QSW0381-001Z      | TACT SWITCH     | PAUSE          |       |
| S7015        | QSW0381-001Z      | TACT SWITCH     | STOP           |       |
| S7022        | QSW0381-001Z      | TACT SWITCH     | PR-            |       |
| S7023        | QSW0381-001Z      | TACT SWITCH     | REC MODE       |       |
| S7024        | QSW0381-001Z      | TACT SWITCH     | VHS TIMER      |       |
| S7032        | QSW0381-001Z      | TACT SWITCH     | OPEN/CLOSE     |       |
| S7033        | QSW0381-001Z      | TACT SWITCH     | REW            |       |
| S7034        | QSW0381-001Z      | TACT SWITCH     | REC            |       |
| S7035        | QSW0381-001Z      | TACT SWITCH     | PLAY           |       |
| W41          | NRSA63J-0R0X      | MG RESISTOR     | 0Ω 1/16W J     |       |
| W42          | NRSA63J-0R0X      | MG RESISTOR     | 0Ω 1/16W J     |       |
| W43          | NRSA63J-0R0X      | MG RESISTOR     | 0Ω 1/16W J     |       |
| W44          | NRSA63J-0R0X      | MG RESISTOR     | 0Ω 1/16W J     |       |

## Jack board

Block No. [3][6]

| △ Symbol No. | Part No.      | Part Name       | Description | Local |
|--------------|---------------|-----------------|-------------|-------|
| PW1          | LPA10249-01C3 | JACK BOARD ASSY |             |       |
| CN4104       | QGA2001C1-06  | CONNECTOR       | W-B (1-6)   |       |
| J4112        | QNZ0675-001   | D CONNECTOR     | FRONT DV IN |       |
| K4101        | NRSA63J-0R0X  | MG RESISTOR     | 0Ω 1/16W J  |       |
| K4102        | NRSA63J-0R0X  | MG RESISTOR     | 0Ω 1/16W J  |       |
| K4103        | NRSA63J-0R0X  | MG RESISTOR     | 0Ω 1/16W J  |       |
| K4104        | NRSA63J-0R0X  | MG RESISTOR     | 0Ω 1/16W J  |       |
| K4105        | NRSA63J-0R0X  | MG RESISTOR     | 0Ω 1/16W J  |       |
| K4106        | NRSA63J-0R0X  | MG RESISTOR     | 0Ω 1/16W J  |       |
| W31          | NRSA63J-0R0X  | MG RESISTOR     | 0Ω 1/16W J  |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.     | Part Name   | Description | Local |
|--------------|--------------|-------------|-------------|-------|
| W32          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J  |       |
| W33          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J  |       |
| W34          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J  |       |
| W35          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J  |       |
| W36          | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J  |       |

## Loading motor board

Block No. [5][5]

| △ Symbol No. | Part No.      | Part Name                | Description | Local |
|--------------|---------------|--------------------------|-------------|-------|
| PW1          | LPA10158-01A2 | LOADING MOTOR BOARD ASSY |             |       |

## Video switch board

Block No. [8][3]

| △ Symbol No. | Part No.           | Part Name               | Description  | Local   |
|--------------|--------------------|-------------------------|--------------|---------|
| PW1          | LPA10264-02A2      | VIDEO SWITCH BOARD ASSY |              | A       |
| PW1          | LPA10264-01A2      | VIDEO SWITCH BOARD ASSY |              | B,C,D,E |
| IC501        | JCP8038-I          | IC                      |              |         |
| IC501        | or JCP8038         | IC                      |              |         |
| IC502        | LC74793            | IC                      |              |         |
| Q503         | 2SD601A/QRS/-X     | TRANSISTOR              |              |         |
| Q503         | or 2SC2412K/QRS/-X | TRANSISTOR              |              |         |
| Q503         | or 2SC3928A/QRS/-X | TRANSISTOR              |              |         |
| Q504         | 2SB709A/QR/-X      | TRANSISTOR              |              |         |
| Q504         | or 2SA1037AK/QR/-X | TRANSISTOR              |              |         |
| Q504         | or 2SA1530A/QR/-X  | TRANSISTOR              |              |         |
| Q505         | 2SB709A/QR/-X      | TRANSISTOR              |              |         |
| Q505         | or 2SA1037AK/QR/-X | TRANSISTOR              |              |         |
| Q505         | or 2SA1530A/QR/-X  | TRANSISTOR              |              |         |
| Q506         | 2SB709A/QR/-X      | TRANSISTOR              |              |         |
| Q506         | or 2SA1037AK/QR/-X | TRANSISTOR              |              |         |
| Q506         | or 2SA1530A/QR/-X  | TRANSISTOR              |              |         |
| D501         | DA204U-X           | SI DIODE                |              |         |
| D502         | DA204U-X           | SI DIODE                |              |         |
| C501         | QEKJ0JM-476Z       | E CAPACITOR             | 47uF 6.3V M  |         |
| C502         | NCB31CK-104X       | C CAPACITOR             | 0.1uF 16V K  |         |
| C503         | NCF31AZ-105X       | C CAPACITOR             | 1uF 10V Z    |         |
| C505         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C506         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C508         | NCF31AZ-105X       | C CAPACITOR             | 1uF 10V Z    |         |
| C510         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C512         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C513         | NCF31AZ-105X       | C CAPACITOR             | 1uF 10V Z    |         |
| C515         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C516         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C518         | NCF31AZ-105X       | C CAPACITOR             | 1uF 10V Z    |         |
| C519         | NCF31AZ-105X       | C CAPACITOR             | 1uF 10V Z    |         |
| C521         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C522         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C523         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C524         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C525         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C526         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C527         | NCB31CK-104X       | C CAPACITOR             | 0.1uF 16V K  |         |
| C528         | QEKJ1EM-106Z       | E CAPACITOR             | 10uF 25V M   |         |
| C529         | QEKJ0JM-476Z       | E CAPACITOR             | 47uF 6.3V M  |         |
| C530         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C533         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C534         | QEKJ1HM-475Z       | E CAPACITOR             | 4.7uF 50V M  |         |
| C535         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C536         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C537         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |
| C539         | NCB31EK-103X       | C CAPACITOR             | 0.01uF 25V K |         |

| △ Symbol No. | Part No.     | Part Name   | Description   | Local |
|--------------|--------------|-------------|---------------|-------|
| C540         | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K  |       |
| C541         | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K  |       |
| C543         | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |       |
| C545         | QEKJ1HM-225Z | E CAPACITOR | 2.2uF 50V M   |       |
| C546         | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K  |       |
| C547         | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K  |       |
| C549         | NDC31HJ-100X | C CAPACITOR | 10pF 50V J    |       |
| C550         | NDC31HJ-820X | C CAPACITOR | 82pF 50V J    |       |
| C556         | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K  |       |
| C557         | QEKJ0JM-476Z | E CAPACITOR | 47uF 6.3V M   |       |
| C558         | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K  |       |
| C559         | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |       |
| C571         | QEKJ0JM-227Z | E CAPACITOR | 220uF 6.3V M  |       |
| C572         | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K   |       |
| C573         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C574         | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z     |       |
| C577         | NCB31CK-563X | C CAPACITOR | 0.056uF 16V K |       |
| C578         | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M   |       |
| C579         | NCB31AK-224X | C CAPACITOR | 0.22uF 10V K  |       |
| C580         | QEKJ0JM-227Z | E CAPACITOR | 220uF 6.3V M  |       |
| C581         | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K  |       |

|      |              |             |               |   |
|------|--------------|-------------|---------------|---|
| R501 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R503 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R504 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R505 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R507 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R509 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R510 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |   |
| R511 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R512 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R518 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J |   |
| R521 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J  |   |
| R526 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |   |
| R527 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |   |
| R528 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |   |
| R529 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |   |
| R533 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J |   |
| R534 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |   |
| R535 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J |   |
| R542 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |   |
| R545 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |   |
| R546 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |   |
| R547 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R548 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R571 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |   |
| R573 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |   |
| R574 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R575 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R577 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |   |
| R578 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    | A |
| R579 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |   |
| R580 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J |   |
| R581 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |   |

|      |              |        |        |  |
|------|--------------|--------|--------|--|
| L501 | QQL29BJ-100Z | P COIL | 10uH J |  |
| L502 | QQL29BJ-100Z | P COIL | 10uH J |  |
| L504 | QQL231J-330Y | COIL   | 33uH J |  |
| L508 | QQL29BJ-100Z | P COIL | 10uH J |  |

|       |              |              |               |   |
|-------|--------------|--------------|---------------|---|
| B501  | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    |   |
| BK1   | LP40425-001A | BRACKET(PWB) |               |   |
| CN501 | QGF1208F1-04 | CONNECTOR    | FFC/FPC (1-4) |   |
| CN502 | QGG2503K2-20 | CONNECTOR    | (1-20)        |   |
| CN504 | QGF1208F1-06 | CONNECTOR    | FFC/FPC (1-6) | A |
| W51   | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    |   |
| W52   | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    |   |
| W53   | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    |   |
| W54   | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    |   |
| W55   | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    |   |
| W56   | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    |   |
| W57   | NRSA63J-0R0X | MG RESISTOR  | 0Ω 1/16W J    |   |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

## Secam board

### Block No. [8][8]

| △ Symbol No. | Part No.           | Part Name        | Description   | Local |
|--------------|--------------------|------------------|---------------|-------|
| PW1          | LPA20037-01B       | SECAM BOARD ASSY |               | A     |
| IC301        | LA7358             | IC               |               | A     |
| IC4301       | LA7357M-W          | IC               |               | A     |
| IC4304       | 74HC4538D-X        | IC               |               | A     |
| Q301         | 2SA1037AK/QR/-X    | TRANSISTOR       |               | A     |
| Q301         | or 2SB709A/QR/-X   | TRANSISTOR       |               | A     |
| Q301         | or 2SA1530A/QR/-X  | TRANSISTOR       |               | A     |
| Q302         | DTA144WKA-X        | TRANSISTOR       |               | A     |
| Q302         | or UN211E-X        | DIGI TRANSISTOR  |               | A     |
| Q302         | or RT1P44HC-X      | DIGI TRANSISTOR  |               | A     |
| Q4301        | 2SD601A/QRS/-X     | TRANSISTOR       |               | A     |
| Q4301        | or 2SC2412K/QRS/-X | TRANSISTOR       |               | A     |
| Q4301        | or 2SC3928A/QRS/-X | TRANSISTOR       |               | A     |
| Q4302        | 2SB709A/QR/-X      | TRANSISTOR       |               | A     |
| Q4302        | or 2SA1037AK/QR/-X | TRANSISTOR       |               | A     |
| Q4302        | or 2SA1530A/QR/-X  | TRANSISTOR       |               | A     |
| Q4303        | 2SB709A/QR/-X      | TRANSISTOR       |               | A     |
| Q4303        | or 2SA1037AK/QR/-X | TRANSISTOR       |               | A     |
| Q4303        | or 2SA1530A/QR/-X  | TRANSISTOR       |               | A     |
| D4301        | 1SS133-T2          | SI DIODE         |               | A     |
| C301         | NDC31HJ-151X       | C CAPACITOR      | 150pF 50V J   | A     |
| C302         | QEKJ1HM-225Z       | E CAPACITOR      | 2.2uF 50V M   | A     |
| C303         | NCB31EK-682X       | C CAPACITOR      | 6800pF 25V K  | A     |
| C304         | NCB31EK-682X       | C CAPACITOR      | 6800pF 25V K  | A     |
| C305         | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C307         | NDC31HJ-151X       | C CAPACITOR      | 150pF 50V J   | A     |
| C308         | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C309         | NCB31CK-104X       | C CAPACITOR      | 0.1uF 16V K   | A     |
| C310         | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C311         | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C312         | NCB31HK-102X       | C CAPACITOR      | 1000pF 50V K  | A     |
| C313         | QEKJ1HM-474Z       | E CAPACITOR      | 0.47uF 50V M  | A     |
| C315         | QEKJ1HM-105Z       | E CAPACITOR      | 1uF 50V M     | A     |
| C316         | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C317         | NCB31HK-681X       | C CAPACITOR      | 680pF 50V K   | A     |
| C318         | NCB31EK-223X       | C CAPACITOR      | 0.022uF 25V K | A     |
| C319         | QEKJ1HM-105Z       | E CAPACITOR      | 1uF 50V M     | A     |
| C320         | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C321         | NDC31HG-301X       | C CAPACITOR      | 300pF 50V G   | A     |
| C322         | NCB31AK-474X       | C CAPACITOR      | 0.47uF 10V K  | A     |
| C323         | QEKJ0JM-476Z       | E CAPACITOR      | 47uF 6.3V M   | A     |
| C4301        | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C4302        | QEKJ1CM-476Z       | E CAPACITOR      | 47uF 16V M    | A     |
| C4304        | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C4305        | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C4306        | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C4307        | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C4308        | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C4309        | NCB31EK-103X       | C CAPACITOR      | 0.01uF 25V K  | A     |
| C4310        | NDC31HJ-471X       | C CAPACITOR      | 470pF 50V J   | A     |
| C4318        | NCB31EK-104X       | C CAPACITOR      | 0.1uF 25V K   | A     |
| C4319        | NDC31HJ-471X       | C CAPACITOR      | 470pF 50V J   | A     |
| R301         | NRSA63J-273X       | MG RESISTOR      | 27kΩ 1/16W J  | A     |
| R302         | NRSA63J-124X       | MG RESISTOR      | 120kΩ 1/16W J | A     |
| R303         | NRSA63J-273X       | MG RESISTOR      | 27kΩ 1/16W J  | A     |
| R304         | NRSA63J-682X       | MG RESISTOR      | 6.8kΩ 1/16W J | A     |
| R305         | NRSA63J-473X       | MG RESISTOR      | 47kΩ 1/16W J  | A     |
| R306         | NRSA63J-273X       | MG RESISTOR      | 27kΩ 1/16W J  | A     |
| R307         | NRSA63J-222X       | MG RESISTOR      | 2.2kΩ 1/16W J | A     |
| R308         | NRSA63J-222X       | MG RESISTOR      | 2.2kΩ 1/16W J | A     |
| R309         | NRSA63J-0R0X       | MG RESISTOR      | 0Ω 1/16W J    | A     |
| R310         | NRSA63J-223X       | MG RESISTOR      | 22kΩ 1/16W J  | A     |
| R311         | NRSA63J-472X       | MG RESISTOR      | 4.7kΩ 1/16W J | A     |
| R312         | NRSA63J-272X       | MG RESISTOR      | 2.7kΩ 1/16W J | A     |
| R313         | NRSA63J-223X       | MG RESISTOR      | 22kΩ 1/16W J  | A     |
| R314         | NRSA63D-243X       | MG RESISTOR      | 24kΩ 1/16W D  | A     |
| R315         | NRSA63J-564X       | MG RESISTOR      | 560kΩ 1/16W J | A     |
| R316         | NRSA63J-124X       | MG RESISTOR      | 120kΩ 1/16W J | A     |
| R329         | NRSA63J-0R0X       | MG RESISTOR      | 0Ω 1/16W J    | A     |

| △ Symbol No. | Part No.     | Part Name   | Description    | Local |
|--------------|--------------|-------------|----------------|-------|
| R4301        | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J   | A     |
| R4302        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J     | A     |
| R4304        | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J   | A     |
| R4305        | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J  | A     |
| R4306        | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J  | A     |
| R4307        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J   | A     |
| R4308        | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J   | A     |
| R4309        | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J  | A     |
| R4310        | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J  | A     |
| R4311        | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J   | A     |
| R4312        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J     | A     |
| R4317        | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J   | A     |
| R4318        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J   | A     |
| R4319        | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J   | A     |
| R4320        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J     | A     |
| L301         | QQL29BJ-100Z | P COIL      | 10uH J         | A     |
| L302         | QQL231J-6R8Y | COIL        | 6.8uH J        | A     |
| L303         | QQL231J-270Y | COIL        | 27uH J         | A     |
| L4301        | QQL29BJ-100Z | P COIL      | 10uH J         | A     |
| CN301        | QGF1207C1-15 | CONNECTOR   | FFC/FPC (1-15) | A     |
| CN4302       | QGF1207C1-06 | CONNECTOR   | FFC/FPC (1-6)  | A     |
| W1           | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J     | A     |
| W2           | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J     | A     |
| W3           | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J     | A     |
| W4           | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J     | A     |
| W5           | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J     | A     |

## Junction board

### Block No. [9][2]

| △ Symbol No. | Part No.           | Part Name           | Description | Local |
|--------------|--------------------|---------------------|-------------|-------|
| PW1          | LPA10249-03B2      | JUNCTION BOARD ASSY |             |       |
| IC5502       | MM1565AF-X         | IC                  |             |       |
| IC5505       | MM1563DF-X         | IC                  |             |       |
| IC5506       | MPD4S010           | IC(HYBRID)          |             |       |
| IC8001       | BA15218F-XE        | IC                  |             |       |
| IC8001       | or RC4558D-X       | IC                  |             |       |
| IC8002       | AK5381VTP-X        | IC                  |             |       |
| IC8002       | or AK5357VT-X      | IC                  |             |       |
| IC8201       | BA15218F-XE        | IC                  |             |       |
| IC8201       | or RC4558D-X       | IC                  |             |       |
| IC8202       | AK4381VT-X         | IC                  |             |       |
| IC8202       | or AK4385VT-X      | IC                  |             |       |
| Q5501        | 2SD601A/QRS/-X     | TRANSISTOR          |             |       |
| Q5501        | or 2SC2412K/QRS/-X | TRANSISTOR          |             |       |
| Q5501        | or 2SC3928A/QRS/-X | TRANSISTOR          |             |       |
| Q5502        | UN2111-X           | TRANSISTOR          |             |       |
| Q5502        | or DTA114EKA-X     | DIGI TRANSISTOR     |             |       |
| Q5502        | or RT1P141C-X      | DIGI TRANSISTOR     |             |       |
| Q5503        | 2SD2144S/UV/-T     | TRANSISTOR          |             |       |
| Q5503        | or 2SC3576-JVC-T   | TRANSISTOR          |             |       |
| Q5504        | UN2211-X           | TRANSISTOR          |             |       |
| Q5504        | or DTC114EKA-X     | DIGI TRANSISTOR     |             |       |
| Q5504        | or RT1N141C-X      | DIGI TRANSISTOR     |             |       |
| Q5505        | UN2111-X           | TRANSISTOR          |             |       |
| Q5505        | or DTA114EKA-X     | DIGI TRANSISTOR     |             |       |
| Q5505        | or RT1P141C-X      | DIGI TRANSISTOR     |             |       |
| Q5506        | UN2211-X           | TRANSISTOR          |             |       |
| Q5506        | or DTC114EKA-X     | DIGI TRANSISTOR     |             |       |
| Q5506        | or RT1N141C-X      | DIGI TRANSISTOR     |             |       |
| Q5507        | 2SD1858/QR/-T      | TRANSISTOR          |             |       |
| Q5508        | 2SA1585S/QR/-T     | TRANSISTOR          |             |       |
| Q5509        | 2SA1585S/QR/-T     | TRANSISTOR          |             |       |
| Q5510        | UN2211-X           | TRANSISTOR          |             |       |
| Q5510        | or DTC114EKA-X     | DIGI TRANSISTOR     |             |       |
| Q5510        | or RT1N141C-X      | DIGI TRANSISTOR     |             |       |
| Q7101        | 2SB709A/QR/-X      | TRANSISTOR          |             |       |
| Q7101        | or 2SA1037AK/QR/-X | TRANSISTOR          |             |       |
| Q7101        | or 2SA1530A/QR/-X  | TRANSISTOR          |             |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

| △ Symbol No. | Part No.           | Part Name       | Description  | Local | △ Symbol No. | Part No.     | Part Name   | Description   | Local |
|--------------|--------------------|-----------------|--------------|-------|--------------|--------------|-------------|---------------|-------|
| Q8001        | 2SC2412K/QRS/-X    | TRANSISTOR      |              |       | C8210        | QEKCOJM-337Z | E CAPACITOR | 330uF 6.3V M  |       |
| Q8001        | or 2SD601A/QRS/-X  | TRANSISTOR      |              |       | C8231        | QEKCOJM-107Z | E CAPACITOR | 100uF 6.3V M  |       |
| Q8001        | or 2SC3928A/QRS/-X | TRANSISTOR      |              |       | C8232        | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K   |       |
| Q8002        | 2SC2412K/QRS/-X    | TRANSISTOR      |              |       |              |              |             |               |       |
| Q8002        | or 2SD601A/QRS/-X  | TRANSISTOR      |              |       | R5501        | QRE121J-561Y | C RESISTOR  | 560Ω 1/2W J   |       |
| Q8002        | or 2SC3928A/QRS/-X | TRANSISTOR      |              |       | R5502        | QRE121J-561Y | C RESISTOR  | 560Ω 1/2W J   |       |
| Q8003        | DTC144WKA-X        | DIGI TRANSISTOR |              |       | R5503        | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |       |
| Q8003        | or UN221E-X        | TRANSTSTOR      |              |       | R5504        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| Q8003        | or RT1N44HC-X      | DIGI TRANSISTOR |              |       | R5505        | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| Q8004        | DTC144WKA-X        | DIGI TRANSISTOR |              |       | R5506        | QRE141J-471Y | C RESISTOR  | 470Ω 1/4W J   |       |
| Q8004        | or UN221E-X        | TRANSTSTOR      |              |       | R5507        | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J |       |
| Q8004        | or RT1N44HC-X      | DIGI TRANSISTOR |              |       | R5508        | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J |       |
| Q8005        | DTA144WKA-X        | TRANSISTOR      |              |       | R5509        | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J  |       |
| Q8005        | or UN221E-X        | DIGI TRANSISTOR |              |       | R5510        | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J  |       |
| Q8005        | or RT1P44HC-X      | DIGI TRANSISTOR |              |       | R5511        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
|              |                    |                 |              |       | R5512        | NRSA02J-471X | MG RESISTOR | 470Ω 1/10W J  |       |
| D5501        | 1A3G-T2            | SI DIODE        |              |       | R5513        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| D5501        | or 10EDB20-T2      | SI DIODE        |              |       | R5514        | QRE141J-271Y | C RESISTOR  | 270Ω 1/4W J   |       |
| D5501        | or ERA15-02-T2     | SI DIODE        |              |       | R7101        | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J |       |
| D5502        | 1SS133-T2          | SI DIODE        |              |       | R7102        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| D5502        | or 1SS270A-T2      | SI DIODE        |              |       | R7147        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| D5503        | MTZJ27C-T2         | Z DIODE         |              |       | R7148        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| D5503        | or RD27ES/B3/-T2   | Z DIODE         |              |       | R7149        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| D5504        | MTZJ5.6C-T2        | Z DIODE         |              |       | R7150        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| D5504        | or RD5.6ES/B3/-T2  | Z DIODE         |              |       | R7152        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| D5508        | 1SS133-T2          | SI DIODE        |              |       | R7153        | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J  |       |
|              |                    |                 |              |       | R8001        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5504        | NCB21AK-105X       | C CAPACITOR     | 1uF 10V K    |       | R8002        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5505        | QETN1AM-107Z       | E CAPACITOR     | 100uF 10V M  |       | R8003        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5506        | NCB31HK-471X       | C CAPACITOR     | 470pF 50V K  |       | R8004        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5513        | NCB21AK-105X       | C CAPACITOR     | 1uF 10V K    |       | R8005        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5514        | QETN0JM-107Z       | E CAPACITOR     | 100uF 6.3V M |       | R8006        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5515        | NCB31HK-471X       | C CAPACITOR     | 470pF 50V K  |       | R8007        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5516        | QETN1AM-107Z       | E CAPACITOR     | 100uF 10V M  |       | R8008        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5518        | QECSC1CM-477       | E CAPACITOR     | 470uF 16V M  |       | R8009        | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J |       |
| C5519        | QECSC1CM-477       | E CAPACITOR     | 470uF 16V M  |       | R8010        | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J |       |
| C5521        | QECSC1CM-477       | E CAPACITOR     | 470uF 16V M  |       | R8011        | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J |       |
| C5523        | NCB10JK-106X       | C CAPACITOR     | 10uF 6.3V K  |       | R8012        | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J |       |
| C5524        | NCB10JK-106X       | C CAPACITOR     | 10uF 6.3V K  |       | R8013        | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C5526        | NCB10JK-106X       | C CAPACITOR     | 10uF 6.3V K  |       | R8014        | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C5530        | QECSC1CM-477       | E CAPACITOR     | 470uF 16V M  |       | R8015        | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C5531        | NCB10JK-106X       | C CAPACITOR     | 10uF 6.3V K  |       | R8016        | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C5532        | NCB10JK-106X       | C CAPACITOR     | 10uF 6.3V K  |       | R8017        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C5533        | NCB10JK-106X       | C CAPACITOR     | 10uF 6.3V K  |       | R8018        | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J  |       |
| C5534        | NCB10JK-106X       | C CAPACITOR     | 10uF 6.3V K  |       | R8019        | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J  |       |
| C5535        | QETN1CM-108Z       | E CAPACITOR     | 1000uF 16V M |       | R8051        | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J  |       |
| C7123        | NDC31HJ-120X       | C CAPACITOR     | 12pF 50V J   |       | R8052        | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J    |       |
| C7124        | NDC31HJ-6R0X       | C CAPACITOR     | 6pF 50V J    |       | R8201        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       |
| C7141        | NDC31HJ-390X       | C CAPACITOR     | 39pF 50V J   |       | R8202        | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       |
| C7143        | NDC31HJ-100X       | C CAPACITOR     | 10pF 50V J   |       | R8203        | NRSA63J-512X | MG RESISTOR | 5.1kΩ 1/16W J |       |
| C8001        | NDC31HJ-101X       | C CAPACITOR     | 100pF 50V J  |       | R8204        | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J  |       |
| C8003        | NDC31HJ-101X       | C CAPACITOR     | 100pF 50V J  |       | R8205        | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J  |       |
| C8005        | NDC31HJ-101X       | C CAPACITOR     | 100pF 50V J  |       | R8206        | NRSA63J-512X | MG RESISTOR | 5.1kΩ 1/16W J |       |
| C8007        | NDC31HJ-101X       | C CAPACITOR     | 100pF 50V J  |       | R8207        | NRSA63J-512X | MG RESISTOR | 5.1kΩ 1/16W J |       |
| C8009        | QEKCIEM-106Z       | E CAPACITOR     | 10uF 25V M   |       | R8208        | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J  |       |
| C8010        | QEKCIEM-106Z       | E CAPACITOR     | 10uF 25V M   |       | R8209        | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J  |       |
| C8011        | QEKCIHM-475Z       | E CAPACITOR     | 4.7uF 50V M  |       | R8210        | NRSA63J-512X | MG RESISTOR | 5.1kΩ 1/16W J |       |
| C8012        | NCB31HK-104X       | C CAPACITOR     | 0.1uF 50V K  |       | R8211        | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J  |       |
| C8013        | QEKCOJM-107Z       | E CAPACITOR     | 100uF 6.3V M |       | R8212        | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J  |       |
| C8014        | NCB31HK-104X       | C CAPACITOR     | 0.1uF 50V K  |       | R8213        | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C8015        | QEKCOJM-107Z       | E CAPACITOR     | 100uF 6.3V M |       | R8214        | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C8016        | NCB31HK-104X       | C CAPACITOR     | 0.1uF 50V K  |       | R8215        | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C8051        | QEKCOJM-337Z       | E CAPACITOR     | 330uF 6.3V M |       | R8216        | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J   |       |
| C8052        | QEKCIEM-107Z       | E CAPACITOR     | 100uF 16V M  |       | R8217        | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J  |       |
| C8053        | NCB31HK-104X       | C CAPACITOR     | 0.1uF 50V K  |       | R8219        | NRSA63J-432X | MG RESISTOR | 4.3kΩ 1/16W J |       |
| C8054        | QEKCOJM-337Z       | E CAPACITOR     | 330uF 6.3V M |       | R8220        | NRSA63J-432X | MG RESISTOR | 4.3kΩ 1/16W J |       |
| C8055        | NCB31HK-104X       | C CAPACITOR     | 0.1uF 50V K  |       | R8221        | NRSA63J-432X | MG RESISTOR | 4.3kΩ 1/16W J |       |
| C8056        | QEKCIEM-107Z       | E CAPACITOR     | 100uF 16V M  |       | R8222        | NRSA63J-432X | MG RESISTOR | 4.3kΩ 1/16W J |       |
| C8057        | QEKCIEM-107Z       | E CAPACITOR     | 100uF 16V M  |       | R8231        | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| C8201        | QEKCIEM-476Z       | E CAPACITOR     | 47uF 16V M   |       | R8232        | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J |       |
| C8202        | NCB31HK-471X       | C CAPACITOR     | 470pF 50V K  |       | R8233        | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J   |       |
| C8203        | NCB31HK-471X       | C CAPACITOR     | 470pF 50V K  |       |              |              |             |               |       |
| C8204        | NCB31HK-472X       | C CAPACITOR     | 4700pF 50V K |       | L5502        | QQR0934-001  | CHOKE COIL  |               |       |
| C8205        | NCB31HK-471X       | C CAPACITOR     | 470pF 50V K  |       | L7101        | QQL29BJ-100Z | P COIL      | 10uH J        |       |
| C8206        | NCB31HK-472X       | C CAPACITOR     | 4700pF 50V K |       | L7102        | QQL071J-6R8Y | COIL        | 6.8uH J       |       |
| C8207        | NCB31HK-471X       | C CAPACITOR     | 470pF 50V K  |       | L8001        | QQL29BJ-220Z | P COIL      | 22uH J        |       |
| C8208        | QEKCIEM-476Z       | E CAPACITOR     | 47uF 16V M   |       | L8002        | QQL29BJ-220Z | P COIL      | 22uH J        |       |
| C8209        | NCB31HK-104X       | C CAPACITOR     | 0.1uF 50V K  |       |              |              |             |               |       |

| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

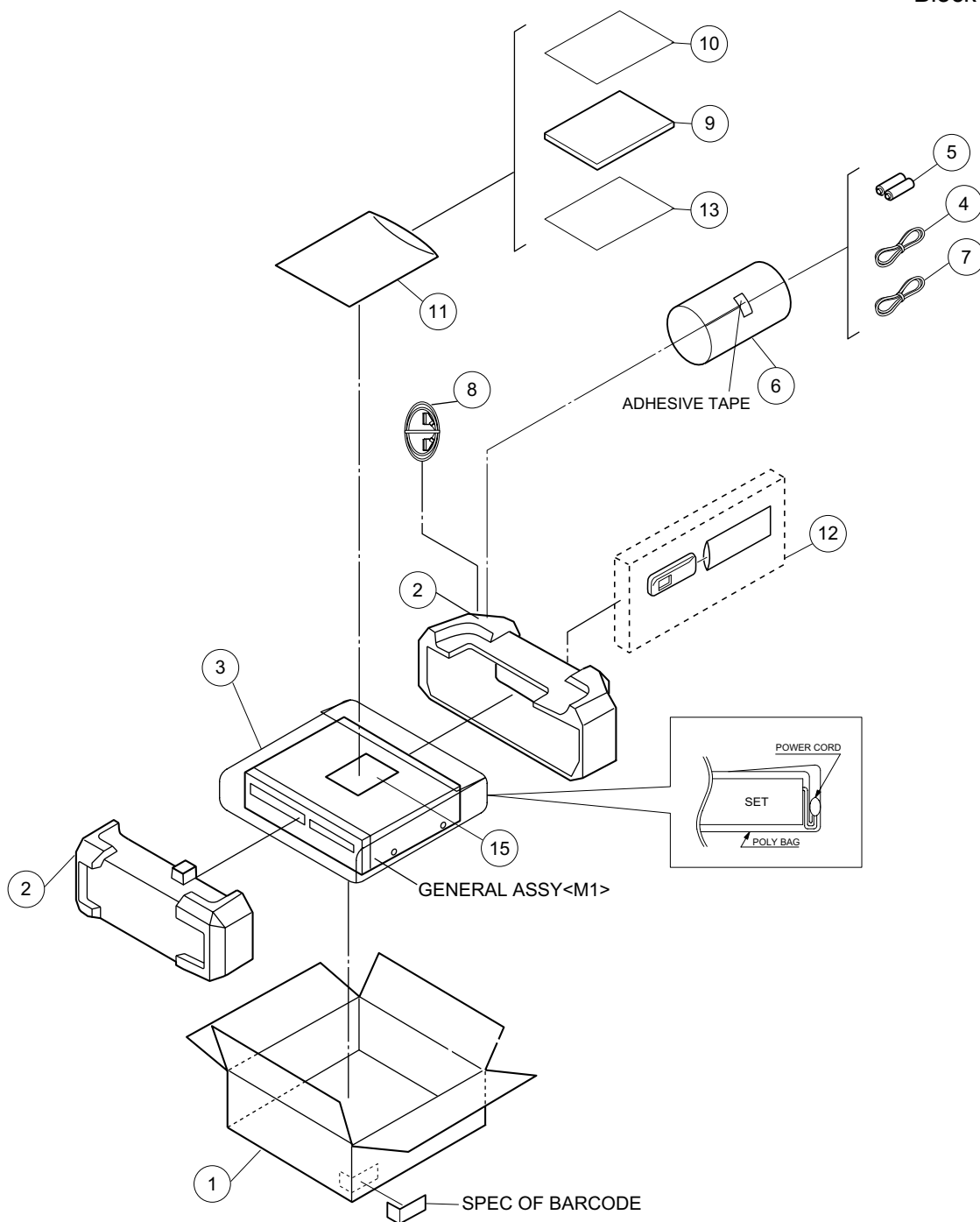
△ Symbol No.    Part No.    Part Name    Description    Local

|        |               |               |                |
|--------|---------------|---------------|----------------|
| B7101  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| B7107  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| B7112  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| B7118  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| CN5501 | QGF1208C1-19  | CONNECTOR     | FFC/FPC (1-19) |
| CN5502 | QGA2001C1-06  | CONNECTOR     | W-B (1-6)      |
| CN5504 | QGA2501C1-04  | CONNECTOR     | W-B (1-4)      |
| CN7102 | QGB1231M1-15  | CONNECTOR     | B-B (1-15)     |
| CN7103 | QGF1207C1-04  | CONNECTOR     | FFC/FPC (1-4)  |
| CN7106 | QGF1016C3-04  | CONNECTOR     | FFC/FPC (1-4)  |
| CN7107 | QGF1207C1-09  | CONNECTOR     | FFC/FPC (1-9)  |
| CN7108 | QGB2027M3-28S | CONNECTOR     | B-B (1-28)     |
| CN7109 | QGB2027M4-20S | CONNECTOR     | B-B (1-20)     |
| CN7121 | QGB2027M9-10  | CONNECTOR     | B-B (1-10)     |
| CN7123 | QGF1207C1-04  | CONNECTOR     | FFC/FPC (1-4)  |
| CN7124 | QGF1207C1-04  | CONNECTOR     | FFC/FPC (1-4)  |
| CN7126 | QGA2001C1-06  | CONNECTOR     | W-B (1-6)      |
| CN8001 | QGB1231M1-11  | CONNECTOR     | B-B (1-11)     |
| K4111  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| K4112  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| K4113  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| K4114  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| K7101  | NQR0129-002X  | FERRITE BEADS |                |
| K7102  | NQR0129-002X  | FERRITE BEADS |                |
| K7103  | NQR0129-002X  | FERRITE BEADS |                |
| K7104  | NQR0129-002X  | FERRITE BEADS |                |
| K8001  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| K8002  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| K8201  | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| K8202  | NRSA63J-4R7X  | MG RESISTOR   | 4.7Ω 1/16W J   |
| W1     | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W2     | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W6     | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W7     | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W8     | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W10    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W11    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W12    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W13    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W14    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W15    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W16    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W17    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W18    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W19    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W20    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W22    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |
| W23    | NRSA63J-0R0X  | MG RESISTOR   | 0Ω 1/16W J     |

# Packing materials and accessories parts list

The instruction manual to be provided with this product will differ according to the destination.

Block No. M3MM



| MODEL     | MARK | MODEL     | MARK | MODEL     | MARK |
|-----------|------|-----------|------|-----------|------|
| DR-MX1SEF | A    | DR-MX1SEU | C    | DR-MX1SEZ | E    |
| DR-MX1SEK | B    | DR-MX1SEY | D    |           |      |

Packing and accessories

Block No. [M][3][M][M]

| △ Symbol No. | Part No.     | Part Name      | Description | Local |
|--------------|--------------|----------------|-------------|-------|
| 1            | LP31452-001A | PACKING CASE   |             |       |
| 2            | LP31454-001A | CUSHION ASSY   |             |       |
| 3            | PQM30021-105 | POLY BAG       |             |       |
| 4            | QAM0002-001  | RF CABLE       |             |       |
| 5            | -----        | BATTERY        | R6 TYPE(x2) |       |
| 6            | QPC02202230P | POLY BAG       | 22cm x 22cm |       |
| 7            | QAL0517-005  | LED CABLE ASSY |             |       |
| 8            | QAM0502-002  | PERI CABLE     |             |       |
| △ 9          | LPT0982-001A | INST.BOOK      | (FRENCH)    | A     |
| △ 9          | LPT0981-001A | INST.BOOK      | (ENGLISH)   | B     |
| △ 9          | LPT0976-001A | INST.BOOK      | (ENGLISH)   | C     |
| △ 9          | LPT0976-002A | INST.BOOK      | (GERMANY)   | C     |
| △ 9          | LPT0976-003A | INST.BOOK      | (FRENCH)    | C     |
| △ 9          | LPT0976-004A | INST.BOOK      | (DUCH)      | C     |
| △ 9          | LPT0976-005A | INST.BOOK      | (SPANISH)   | C     |
| △ 9          | LPT0976-006A | INST.BOOK      | (ITALIAN)   | C     |
| △ 9          | LPT0976-007A | INST.BOOK      | (DANISH)    | D     |
| △ 9          | LPT0976-008A | INST.BOOK      | (FINNISH)   | D     |
| △ 9          | LPT0976-009A | INST.BOOK      | (SWEDISH)   | D     |
| △ 9          | LPT0976-010A | INST.BOOK      | (NORWEGIAN) | D     |
| △ 9          | LPT0976-011A | INST.BOOK      | (CZECH)     | E     |
| △ 9          | LPT0976-012A | INST.BOOK      | (POLISH)    | E     |
| △ 9          | LPT0976-013A | INST.BOOK      | (HUNGARIAN) | E     |
| 10           | -----        | WARRANTY CARD  | BT-54026-1  |       |
| 11           | QPC02503530P | POLY BAG       | 25cm x 35cm |       |
| 12           | RM-SDR017E   | REMOCON        |             |       |
| 13           | LYT0194-001B | Q.CARD         |             | B     |
| 15           | LPT1012-001A | SHEET(LOADING) |             |       |